

10541677

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2 APR 04 STN AnaVist, Version 1, to be discontinued
NEWS 3 APR 15 WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS 4 APR 28 EMBASE Controlled Term thesaurus enhanced
NEWS 5 APR 28 IMSRESEARCH reloaded with enhancements
NEWS 6 MAY 30 INFAPAMDB now available on STN for patent family searching
NEWS 7 MAY 30 DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS 8 JUN 06 EPFULL enhanced with 260,000 English abstracts
NEWS 9 JUN 06 KOREPAT updated with 41,000 documents
NEWS 10 JUN 13 USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 11 JUN 19 CAS REGISTRY includes selected substances from web-based collections
NEWS 12 JUN 25 CA/CAPLUS and USPAT databases updated with IPC reclassification data
NEWS 13 JUN 30 AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 14 JUN 30 EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 15 JUN 30 STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 16 JUN 30 STN AnaVist enhanced with database content from EPFULL
NEWS 17 JUL 28 CA/CAPLUS patent coverage enhanced
NEWS 18 JUL 28 EPFULL enhanced with additional legal status information from the epoline Register
NEWS 19 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 20 JUL 28 STN Viewer performance improved
NEWS 21 AUG 01 INFADOCDB and INFAPAMDB coverage enhanced
NEWS 22 AUG 13 CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 23 AUG 15 CAOLD to be discontinued on December 31, 2008
NEWS 24 AUG 15 CAPLUS currency for Korean patents enhanced
NEWS 25 AUG 25 CA/CAPLUS, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS 26 AUG 27 CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence

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information

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008

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<https://www.cas.org/support/stndocs/properties.html>

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\aeerrt.str

STRUCTURE [UPLOADED]

Updated Search

10541677

```
=> s 11
SAMPLE SEARCH INITIATED 17:40:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 451019 TO ITERATE

    0.4% PROCESSED      2000 ITERATIONS          0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:   8981978 TO  9058782
PROJECTED ANSWERS:        0 TO      0

L2          0 SEA SSS SAM L1

=>
Uploading C:\Documents and Settings\brobins0n1\My Documents\ aeraty.str

L3          STRUCTURE uploaded

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SAMPLE SEARCH INITIATED 17:42:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 79510 TO ITERATE

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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

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                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:   1573419 TO  1606981
PROJECTED ANSWERS:        417 TO     1173

L4          1 SEA SSS SAM L3

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Uploading C:\Documents and Settings\brobins0n1\My Documents\ aertg.str

L5          STRUCTURE uploaded

=> s 15
SAMPLE SEARCH INITIATED 17:43:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1257 TO ITERATE

    100.0% PROCESSED     1257 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   23014 TO   27266
PROJECTED ANSWERS:        0 TO      0

L6          0 SEA SSS SAM L5

=> s 15 full
```

Updated Search

10541677

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:44:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 25767 TO ITERATE

100.0% PROCESSED 25767 ITERATIONS
SEARCH TIME: 00.00.01

1 ANSWERS

L7 1 SEA SSS FUL L5

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
184.80 185.01

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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCaplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17
L8 1 L7

=> d 18, ibib abs hitstr, 1

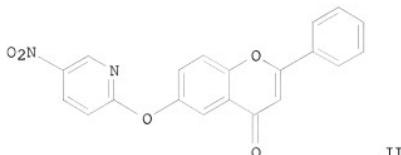
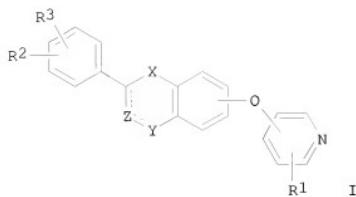
L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:606465 HCAPLUS
DOCUMENT NUMBER: 141:157037
TITLE: Preparation of pyridine derivatives useful for inhibiting sodium/calcium exchange system
INVENTOR(S): Otsomaa, Leena; Koskelainen, Tuula; Karjalainen, Arto; Rasku, Sirpa; Pollesello, Piero; Levijoki, Jouko
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 108 pp.

CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063191	A1	20040729	WO 2004-FI11	20040109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AU 2004203943	A1	20040729	AU 2004-203943	20040109
CA 2512184	A1	20040729	CA 2004-2512184	20040109
EP 1583759	A1	20051012	EP 2004-701023	20040109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004006669	A	20051220	BR 2004-6669	20040109
CN 1745078	A	20060308	CN 2004-80003357	20040109
JP 2006516271	T	20060629	JP 2006-500151	20040109
NZ 541087	A	20080430	NZ 2004-541087	20040109
IN 2005KN01287	A	20061027	IN 2005-KN1287	20050701
MX 2005PA07435	A	20050912	MX 2005-PA7435	20050708
NO 2005003730	A	20051007	NO 2005-3730	20050803
US 20060241147	A1	20061026	US 2005-541677	20051028
ZA 2005005461	A	20060329	ZA 2005-5461	20060124
PRIORITY APPLN. INFO.:			FI 2003-30	A 20030109
			WO 2004-FI11	W 20040109

OTHER SOURCE(S):
 GI

MARPAT 141:157037



AB Title compds. I [X = O, CH₂, CO; Z = divalent alkyl, bond; Y = CH₂, CO, divalent alkyl, etc.; R₂₋₃ = H, alkyl, alkoxy, etc.; R₁ = H, CN, halo, etc. with provisos] are prepared For instance, II is prepared from 2-chloro-5-nitropyridine and 6-hydroxyflavone (DMF, 120°, 30 min). I are potent inhibitors of Na⁺/Ca²⁺ exchange mechanism.

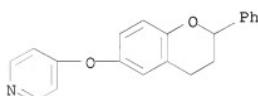
IT 728937-39-1P, 4-(2-Phenylchroman-6-yloxy)pyridine

RL: PAC (Pharmacological activity); **SPN** (Synthetic preparation); **THU** (Therapeutic use); **BIOL** (Biological study); **PREP** (Preparation); **USES** (Uses)

(preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

RN 728937-39-1 HCAPLUS

CN Pyridine, 4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxygen]- (CA INDEX NAME)



=> file caold
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
8.14	193.15

10541677

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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- . December 31, 2008 - removed from STN

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=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008

L1	STRUCTURE UPLOADED
L2	0 S L1
L3	STRUCTURE UPLOADED
L4	1 S L3
L5	STRUCTURE UPLOADED
L6	0 S L5
L7	1 S LS FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008

L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008

=> s 17

10541677

L9 0 L7

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=> file reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY        SESSION
FULL ESTIMATED COST          0.46          193.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE      TOTAL
                                                ENTRY        SESSION
CA SUBSCRIBER PRICE           0.00          -0.80
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

```
=>
Uploading C:\Documents and Settings\brobinsone\My Documents\artgy.str
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L10 STRUCTURE uploaded

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=> d 110
L10 HAS NO ANSWERS
L10      STR
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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=> s 110
SAMPLE SEARCH INITIATED 17:45:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    761 TO ITERATE
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100.0% PROCESSED      761 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01
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Updated Search

10541677

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 13565 TO 16875
PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10

=> s l10 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:45:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 14329 TO ITERATE

100.0% PROCESSED 14329 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L12 1 SEA SSS FUL L10

=> d his

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FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008
L1 STRUCTURE uploaded
L2 0 S L1
L3 STRUCTURE uploaded
L4 1 S L3
L5 STRUCTURE uploaded
L6 0 S L5
L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10 STRUCTURE uploaded
L11 0 S L10
L12 1 S L10 FULL

=> s l12 not 17
L13 1 L12 NOT L7

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 179.28 372.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -0.80

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008

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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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=> s 113
L14 1 L13

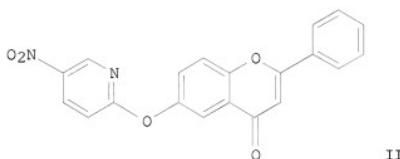
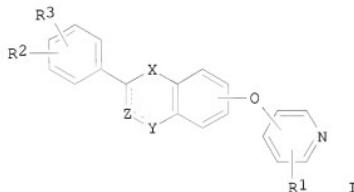
=> d 114, ibib abs hitstr, 1

L14 ANSWER 1 OF 1 HCPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:606465 HCPLUS
DOCUMENT NUMBER: 141:157037
TITLE: Preparation of pyridine derivatives useful for inhibiting sodium/calcium exchange system
INVENTOR(S): Otsomaa, Leena; Koskelainen, Tuula; Karjalainen, Arto; Rasku, Sirpa; Pollesello, Piero; Levijoki, Jouko
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063191	A1	20040729	WO 2004-FI11	20040109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AU 2004203943	A1	20040729	AU 2004-203943	20040109
CA 2512184	A1	20040729	CA 2004-2512184	20040109
EP 1583759	A1	20051012	EP 2004-701023	20040109

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 BR 2004006669 A 20051220 BR 2004-6669 20040109
 CN 1745078 A 20060308 CN 2004-80003357 20040109
 JP 2006516271 T 20060629 JP 2006-500151 20040109
 NZ 541087 A 20080430 NZ 2004-541087 20040109
 IN 2005KN01287 A 20061027 IN 2005-KN1287 20050701
 MX 2005PA07435 A 20050912 MX 2005-PA7435 20050708
 NO 2005003730 A 20051007 NO 2005-3730 20050803
 US 20060241147 A1 20061026 US 2005-541677 20051028
 ZA 2005005461 A 20060329 ZA 2005-5461 20060124
 PRIORITY APPLN. INFO.: FI 2003-30 A 20030109
 WO 2004-FI11 W 20040109

OTHER SOURCE(S): MARPAT 141:157037
 GI



AB Title compds. I [X = O, CH₂, CO; Z = divalent alkyl, bond; Y = CH₂, CO, divalent alkyl, etc.; R₂₋₃ = H, alkyl, alkoxy, etc.; R₁ = H, CN, halo, etc. with provisos] are prepared. For instance, II is prepared from 2-chloro-5-nitropyridine and 6-hydroxyflavone (DMF, 120°, 30 min). I are potent inhibitors of Na⁺/Ca²⁺ exchange mechanism.

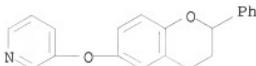
IT 728937-59-5P, 3-((2-Phenylchroman-6-yl)oxy)pyridine

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

10541677

RN 728937-59-5 HCPLUS
CN Pyridine, 3-[(3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX
NAME)



=> file caold			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	8.14	381.03	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	-0.80	-1.60	

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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- . November 22, 2008 - removed from database clusters
- . December 31, 2008 - removed from STN

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```
FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008
L1           STRUCTURE uploaded
L2           0 S L1
L3           STRUCTURE uploaded
L4           1 S L3
L5           STRUCTURE uploaded
L6           0 S L5
L7           1 S L5 FULL
```

L8 FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
1 S L7

L9 FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
0 S L7

```
FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10      STRUCTURE uploaded
L11      0 S L10
L12      1 S L10 FULL
L13      1 S L12 NOT L7
```

L14 FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008
1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008

=> s 113
L15 0 L13

```

=> file reg
COST IN U.S. DOLLARS                               SINCE FILE      TOTAL
                                                ENTRY SESSION
FULL ESTIMATED COST                           0.46   381.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                ENTRY SESSION
CA SUBSCRIBER PRICE                            0.00   -1.60

```

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

10541677

conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\zxcvb.str

L16 STRUCTURE UPLOADED

=> s 116
SAMPLE SEARCH INITIATED 17:47:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2931 TO ITERATE

68.2% PROCESSED 2000 ITERATIONS 14 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 55373 TO 61867
PROJECTED ANSWERS: 139 TO 681

L17 14 SEA SSS SAM L16

=> s 116 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:47:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 59594 TO ITERATE

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L18 232 SEA SSS FUL L16

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ENTRY SESSION
FULL ESTIMATED COST 179.28 560.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -1.60

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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCPlus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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L19          2 L18

=> s l19 and otsomaa, l?/au
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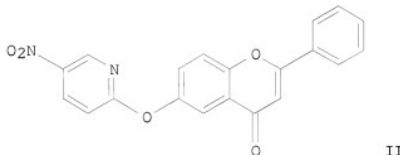
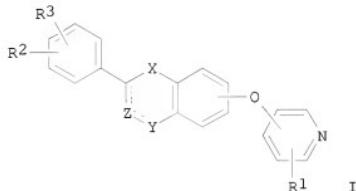
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ACCESSION NUMBER: 2004:606465 HCPLUS
DOCUMENT NUMBER: 141:157037
TITLE: Preparation of pyridine derivatives useful for
       inhibiting sodium/calcium exchange system
INVENTOR(S): Otsomaa, Leena; Koskelainen, Tuula;
              Karjalainen, Arto; Rasku, Sirpa; Pollesello, Piero;
              Levijoki, Jouko
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063191	A1	20040729	WO 2004-FI11	20040109
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CA 2512184	A1	20040729	CA 2004-2512184	20040109
EP 1583759	A1	20051012	EP 2004-701023	20040109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
BR 200406669 A 20051220 BR 2004-6669	20040109		
CN 1745078 A 20060308 CN 2004-80003357	20040109		
JP 2006516271 T 20060629 JP 2006-500151	20040109		
NZ 541087 A 20080430 NZ 2004-541087	20040109		
IN 2005KN01287 A 20061027 IN 2005-KN1287	20050701		
MX 2005PA07435 A 20050912 MX 2005-PA7435	20050708		
NO 2005003730 A 20051007 NO 2005-3730	20050803		
US 20060241147 A1 20061026 US 2005-541677	20051028		
ZA 2005005461 A 20060329 ZA 2005-5461	20060124		
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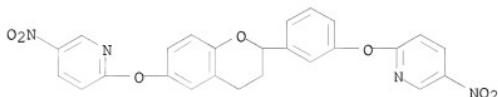
- AB Title compds. I [X = O, CH₂, CO; Z = divalent alkyl, bond; Y = CH₂, CO, divalent alkyl, etc.; R₂₋₃ = H, alkyl, alkoxy, etc.; R₁ = H, CN, halo, etc. with provisos] are prepared. For instance, II is prepared from 2-chloro-5-nitropyridine and 6-hydroxyflavone (DMF, 120°, 30 min). I are potent inhibitors of Na⁺/Ca²⁺ exchange mechanism.
- IT 728934-90-5P, 2-[2-[3-((5-Nitropyridin-2-yl)oxy)phenyl]chroman-6-yloxy]-5-nitropyridine 728935-16-8P, 5-Nitro-2-[2-(3-benzyloxyphenyl)chroman-6-yloxy]pyridine 728935-24-8P, 6-((5-Nitropyridin-2-yl)oxy)-2-[4-((5-nitropyridin-2-yl)oxy)phenyl]chroman-4-ol 728935-38-4P, 3-[6-((5-Aminopyridin-2-yl)oxy)chroman-2-yloxy]phenol 728936-48-9P, 2-Chloro-N-[6-(2-phenylchroman-6-yloxy)pyridin-3-yl]acetamide 728936-80-9P, 2-(3-Hydroxypiperidin-

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 yloxy)nicotinamide 728937-53-9P, 6-(2-Phenylchroman-6-
 yloxy)nicotinic acid

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

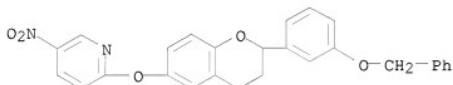
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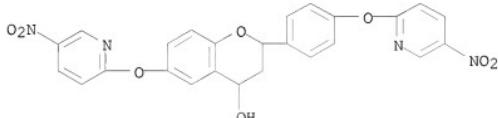
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RN 728935-24-8 HCPLUS

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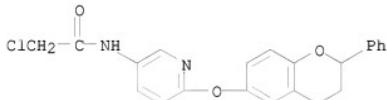
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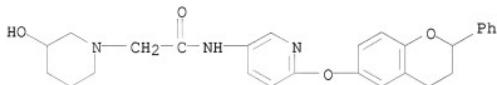
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RN 728936-48-9 HCAPLUS
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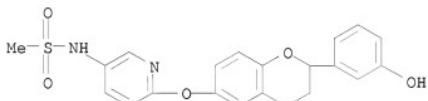


RN 728936-80-9 HCAPLUS
CN 1-Piperidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-3-hydroxy-, hydrochloride (1:1) (CA INDEX NAME)

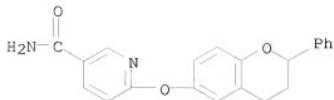


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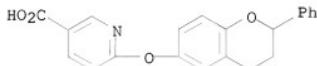
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CN Methanesulfonamide, N-[6-[(3,4-dihydro-2-(3-hydroxyphenyl)-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 728937-42-6 HCAPLUS
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RN 728937-53-9 HCPLUS
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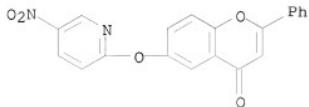
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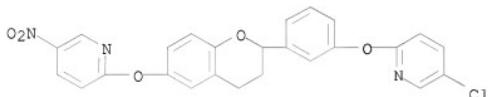
(preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

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CN 4H-1-Benzopyran-4-one, 6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)



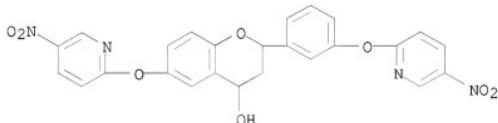
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RN 728935-20-4 HCPLUS
CN Pyridine, 2-[(3,4-dihydro-2-[3-(2-pyridinyl)oxy]phenyl)-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 728935-22-6 HCPLUS
CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]- (CA INDEX NAME)

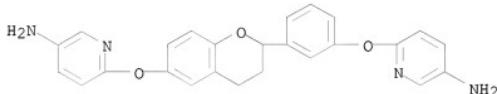


RN 728935-27-1 HCPLUS
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RN 728935-30-6 HCPLUS
CN 3-Pyridinamine, 6-[3-[6-[(5-amino-2-pyridinyl)oxy]-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]-, dihydrochloride (9CI) (CA INDEX NAME)



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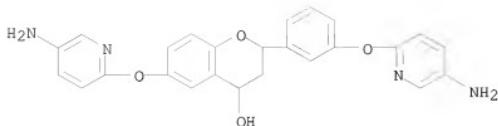
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CN 3-Pyridinamine, 6-[3,4-dihydro-2-[3-(phenylmethoxy)phenyl]-2H-1-benzopyran-6-yl]oxy-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

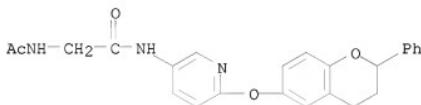
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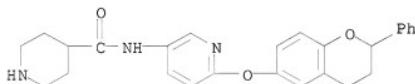


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RN 728935-40-8 HCPLUS
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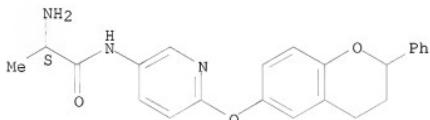


RN 728935-42-0 HCPLUS
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RN 728935-52-2 HCPLUS
CN Propanamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.

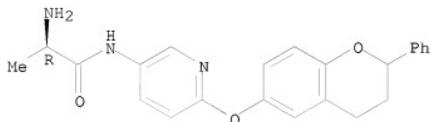


● HCl

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RN 728935-54-4 HCAPLUS
CN Propanamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2R)- (CA INDEX NAME)

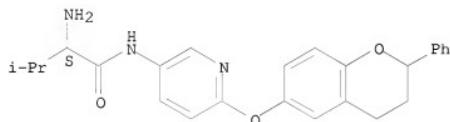
Absolute stereochemistry.



HC1

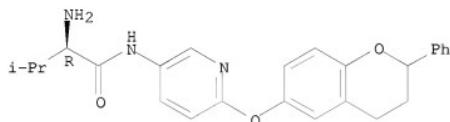
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CN Butanamide, 2-amino-N-[6-((3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy)-3-pyridinyl]methyl-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 728935-62-4 HCPLUS
CN Butanamide, 2-amino-N-[6-((3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy)-3-pyridinyl]-3-methyl-, hydrochloride (1:1). (2R)- (CA INDEX NAME)

Absolute stereochemistry.



• HCl

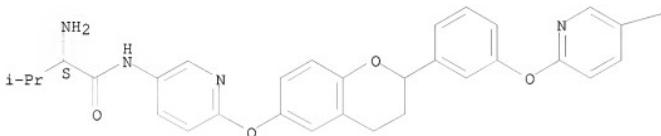
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hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● HCl

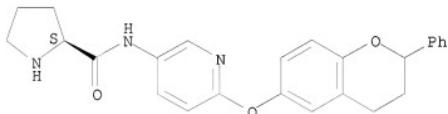
PAGE 1-B

—NO₂

RN 728935-89-5 HCPLUS

CN 2-Pyrrolidinecarboxamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.



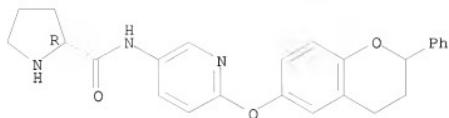
● HCl

RN 728935-91-9 HCPLUS

CN 2-Pyrrolidinecarboxamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2R)- (CA INDEX NAME)

Absolute stereochemistry.

10541677

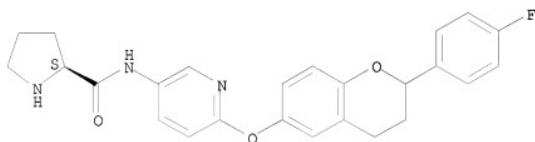


● HCl

RN 728935-94-2 HCPLUS

CN 2-Pyrrolidinecarboxamide, N-[6-[(2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, (2S)- (CA INDEX NAME)

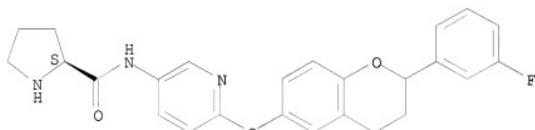
Absolute stereochemistry.



RN 728935-96-4 HCPLUS

CN 2-Pyrrolidinecarboxamide, N-[6-[(2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.



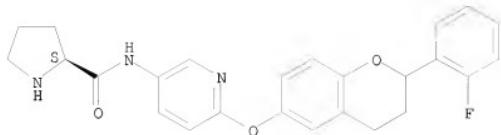
● HCl

RN 728935-98-6 HCPLUS

CN 2-Pyrrolidinecarboxamide, N-[6-[(2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.

Updated Search

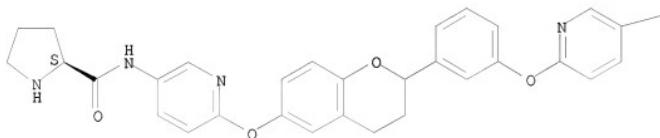


● HCl

RN 728936-00-3 HCPLUS
CN 2-Pyrrolidinecarboxamide, N-[6-[(3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

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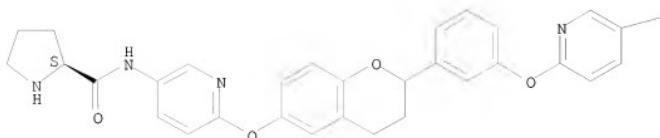
PAGE 1-B

—NO₂

RN 728936-06-9 HCPLUS
CN 2-Pyrrolidinecarboxamide, N-[6-[(3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxyl]phenyl]-2H-1-benzopyran-6-yloxy]-3-pyridinyl]-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● HCl

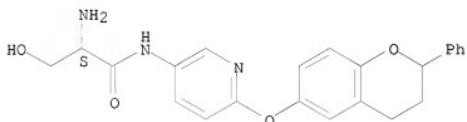
PAGE 1-B

—NO₂

RN 728936-08-1 HCPLUS

CN Propanamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-3-hydroxy-, hydrochloride (1:1), (2S)- (CA INDEX NAME)

Absolute stereochemistry.

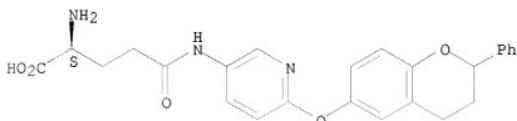


● HCl

RN 728936-13-8 HCPLUS

CN L-Glutamine, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

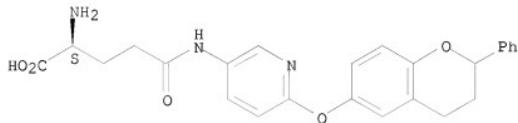


RN 728936-19-4 HCPLUS

10541677

CN L-Glutamine, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

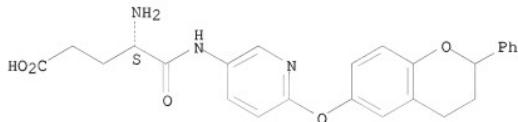


● HCl

RN 728936-21-8 HCPLUS

CN Pentanoic acid, 4-amino-5-[(6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl)amino]-5-oxo-, (4S)- (CA INDEX NAME)

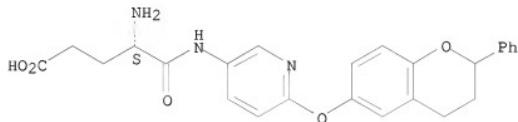
Absolute stereochemistry.



RN 728936-28-5 HCPLUS

CN Pentanoic acid, 4-amino-5-[(6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl)amino]-5-oxo-, hydrochloride (1:1), (4S)- (CA INDEX NAME)

Absolute stereochemistry.



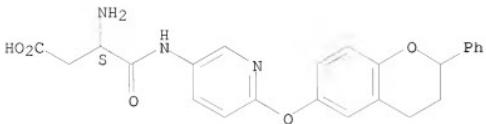
● HCl

RN 728936-30-9 HCPLUS

CN Butanoic acid, 3-amino-4-[(6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl)amino]-4-oxo-, (3S)- (CA INDEX NAME)

10541677

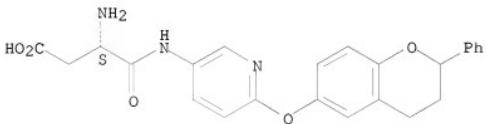
Absolute stereochemistry.



RN 728936-36-5 HCPLUS

CN Butanoic acid, 3-amino-4-[(6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl)amino]-4-oxo-, hydrochloride (1:1), (3S)- (CA INDEX NAME)

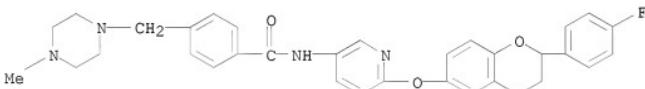
Absolute stereochemistry.



● HCl

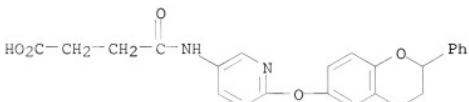
RN 728936-41-2 HCPLUS

CN Benzamide, N-[6-[(2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-4-[(4-methyl-1-piperazinyl)methyl]- (CA INDEX NAME)



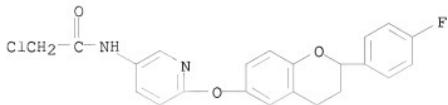
RN 728936-45-6 HCPLUS

CN Butanoic acid, 4-[(6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl)amino]-4-oxo- (CA INDEX NAME)

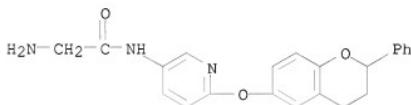


10541677

RN 728936-50-3 HCPLUS
CN Acetamide, 2-chloro-N-[6-[(2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

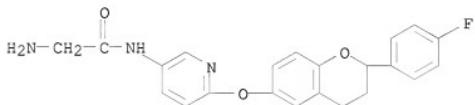


RN 728936-53-6 HCPLUS
CN Acetamide, 2-amino-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)



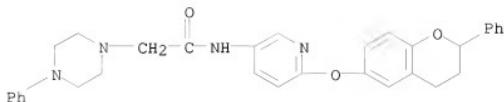
● HCl

RN 728936-60-5 HCPLUS
CN Acetamide, 2-amino-N-[6-[(2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 728936-62-7 HCPLUS
CN 1-Piperazineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-4-phenyl-, hydrochloride (1:2) (CA INDEX NAME)

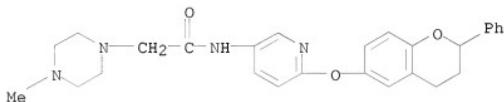
10541677



● 2 HCl

RN 728936-64-9 HCPLUS

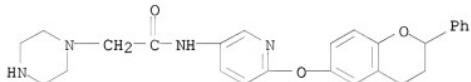
CN 1-Piperazineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)



● 2 HCl

RN 728936-66-1 HCPLUS

CN 1-Piperazineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)

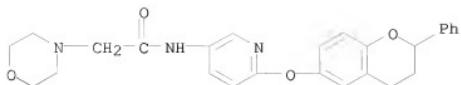


● 2 HCl

RN 728936-68-3 HCPLUS

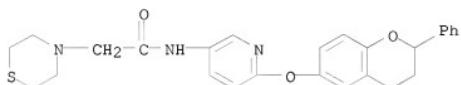
CN 4-Morpholineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)

10541677



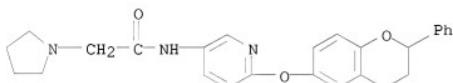
● 2 HCl

RN 728936-70-7 HCPLUS
CN 4-Thiomorpholineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)



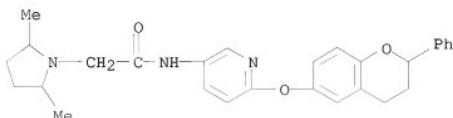
● 2 HCl

RN 728936-72-9 HCPLUS
CN 1-Pyrrolidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)



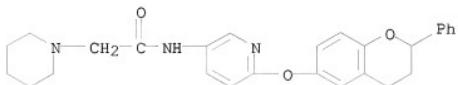
● 2 HCl

RN 728936-74-1 HCPLUS
CN 1-Methylpyrrolidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-2,5-dimethyl- (CA INDEX NAME)



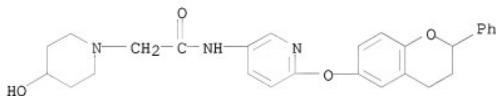
10541677

RN 728936-76-3 HCAPLUS
CN 1-Piperidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)



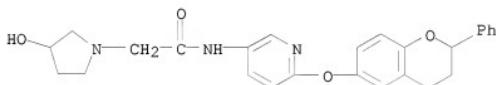
● HCl

RN 728936-78-5 HCAPLUS
CN 1-Piperidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-4-hydroxy-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

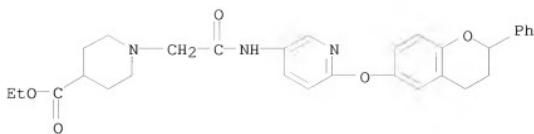
RN 728936-82-1 HCAPLUS
CN 1-Pyrrolidineacetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-3-hydroxy-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 728936-84-3 HCAPLUS
CN 4-Piperidinecarboxylic acid, 1-[2-[(6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl)amino]-2-oxoethyl]-, ethyl ester, hydrochloride (1:1) (CA INDEX NAME)

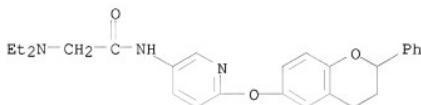
10541677



● HCl

RN 728936-86-5 HCPLUS

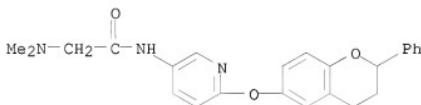
CN Acetamide, 2-(diethylamino)-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 728936-88-7 HCPLUS

CN Acetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-2-(dimethylamino)-, hydrochloride (1:1) (CA INDEX NAME)

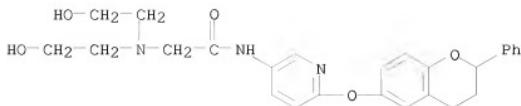


● HCl

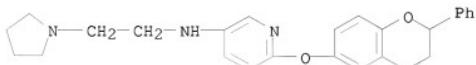
RN 728936-90-1 HCPLUS

CN Acetamide, 2-[bis(2-hydroxyethyl)amino]-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

10541677

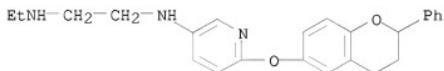


RN 728936-92-3 HCAPLUS
CN 3-Pyridinamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yloxy)oxy]-N-[2-(1-pyrrolidinyl)ethyl]-, hydrochloride (1:1) (CA INDEX NAME)



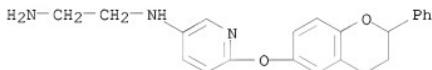
● HCl

RN 728936-96-7 HCAPLUS
CN 1,2-Ethanediamine, N1-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yloxy)oxy]-3-pyridinyl]-N2-ethyl-, hydrochloride (1:2) (CA INDEX NAME)



●2 HCl

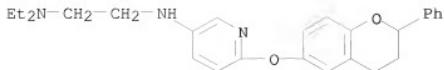
RN 728936-98-9 HCAPLUS
CN 1,2-Ethanediamine, N1-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yloxy)oxy]-3-pyridinyl]-, hydrochloride (1:2) (CA INDEX NAME)



●2 HCl

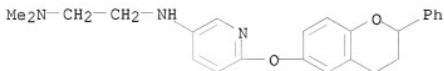
RN 728937-00-6 HCAPLUS
CN 1,2-Ethanediamine, N2-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yloxy)oxy]-3-pyridinyl]-N1,N1-diethyl-, hydrochloride (1:2) (CA INDEX NAME)

10541677



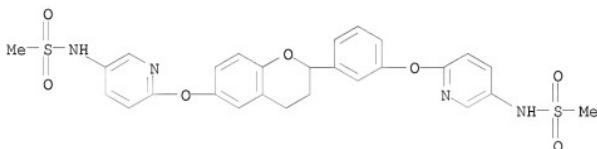
● 2 HCl

RN 728937-02-8 HCPLUS
CN 1,2-Ethanediamine, N2-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N1,N1-dimethyl-, hydrochloride (1:2) (CA INDEX NAME)



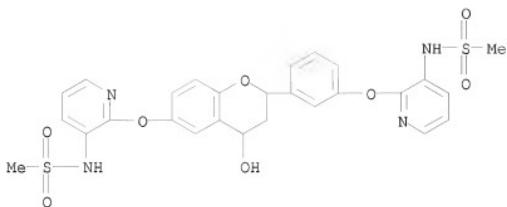
● 2 HCl

RN 728937-04-0 HCPLUS
CN Methanesulfonamide, N-[6-[3-[3,4-dihydro-6-[(5-[(methylsulfonyl)amino]-2-pyridinyl)oxy]-2H-1-benzopyran-2-yl]phenoxy]-3-pyridinyl]- (CA INDEX NAME)

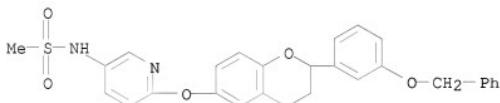


RN 728937-09-5 HCPLUS
CN Methanesulfonamide, N-[2-[3-[3,4-dihydro-4-hydroxy-6-[(3-[(methylsulfonyl)amino]-2-pyridinyl)oxy]-2H-1-benzopyran-2-yl]phenoxy]-3-pyridinyl]- (CA INDEX NAME)

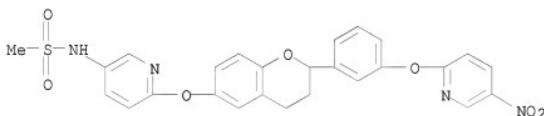
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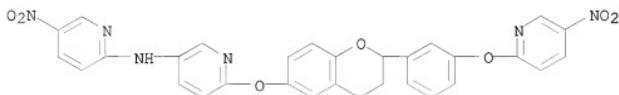
RN 728937-11-9 HCAPLUS
CN Methanesulfonamide, N-[6-[(3,4-dihydro-2-[3-(phenylmethoxy)phenyl]-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 728937-15-3 HCAPLUS
CN Methanesulfonamide, N-[6-[(3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



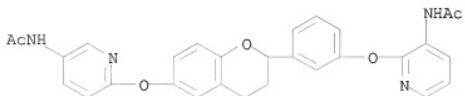
RN 728937-17-5 HCAPLUS
CN 3-Pyridinamine, 6-[(3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxy]phenyl]-2H-1-benzopyran-6-yl)oxy]-N-(5-nitro-2-pyridinyl)- (CA INDEX NAME)



RN 728937-19-7 HCAPLUS
CN Acetamide, N-[2-[3-[6-[(5-acetylaminio)-2-pyridinyl]oxy]-3,4-dihydro-2H-1-

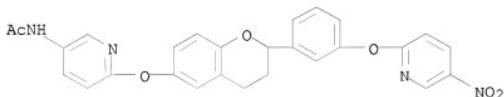
10541677

benzopyran-2-yl]phenoxy]-3-pyridinyl]- (CA INDEX NAME)



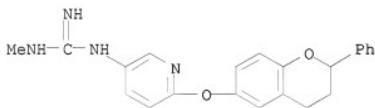
RN 728937-21-1 HCAPLUS

CN Acetamide, N-[6-[(3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



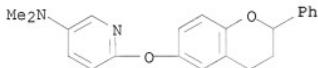
RN 728937-25-5 HCAPLUS

CN Guanidine, N-[6-[(3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N'-methyl- (CA INDEX NAME)



RN 728937-27-7 HCAPLUS

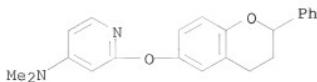
CN 3-Pyridinamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-N,N-dimethyl- (CA INDEX NAME)



RN 728937-29-9 HCAPLUS

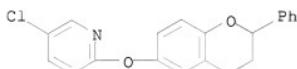
CN 4-Pyridinamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-N,N-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)

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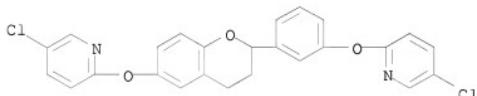


● HCl

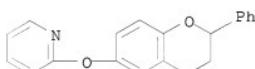
RN 728937-31-3 HCPLUS
CN Pyridine, 5-chloro-2-[3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl]oxy]-
(CA INDEX NAME)



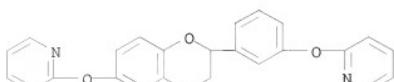
RN 728937-33-5 HCPLUS
CN Pyridine, 5-chloro-2-[3-[6-((5-chloro-2-pyridinyl)oxy)-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)



RN 728937-35-7 HCPLUS
CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



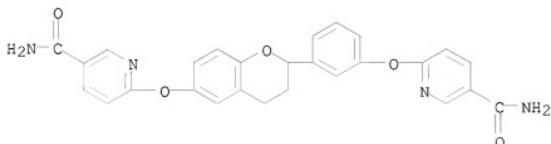
RN 728937-37-9 HCPLUS
CN Pyridine, 2-[3-[3,4-dihydro-6-(2-pyridinyloxy)-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)



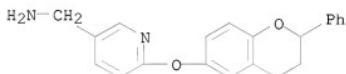
Updated Search

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RN 728937-44-8 HCPLUS
CN 3-Pyridinecarboxamide, 6-[3-[6-[(5-(aminocarbonyl)-2-pyridinyl)oxy]-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)

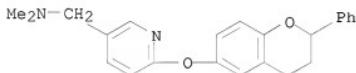


RN 728937-46-0 HCPLUS
CN 3-Pyridinemethanamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-, hydrochloride (1:1) (CA INDEX NAME)

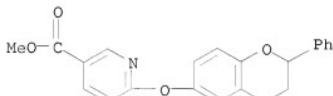


● HCl

RN 728937-48-2 HCPLUS
CN 3-Pyridinemethanamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-N,N-dimethyl- (CA INDEX NAME)



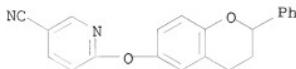
RN 728937-51-7 HCPLUS
CN 3-Pyridinecarboxylic acid, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-, methyl ester (CA INDEX NAME)



RN 728937-55-1 HCPLUS

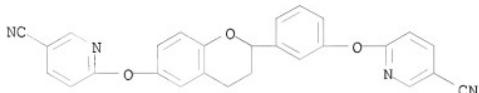
10541677

CN 3-Pyridinecarbonitrile, 6-[{(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-
(CA INDEX NAME)



RN 728937-57-3 HCPLUS

CN 3-Pyridinecarbonitrile, 6-[3-[6-{(5-cyano-2-pyridinyl)oxy}-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)

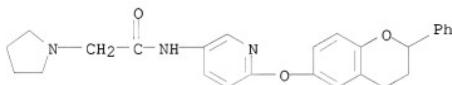


IT 728936-94-5, N-[6-(2-Phenylchroman-6-yloxy)pyridin-3-yl]-2-(pyrrololidin-1-yl)acetamide 728937-07-3, 6-[2-[3-[(5-Aminopyridin-2-yl)oxy]phenyl]chroman-6-yloxy]pyridin-3-ylamine

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

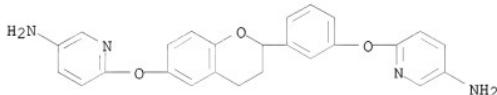
RN 728936-94-5 HCPLUS

CN 1-Pyrrololidineacetamide, N-[6-{(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy}-3-pyridinyl]- (CA INDEX NAME)



RN 728937-07-3 HCPLUS

CN 3-Pyridinamine, 6-[3-[6-{(5-amino-2-pyridinyl)oxy}-3,4-dihydro-2H-1-benzopyran-2-yl]phenoxy]- (CA INDEX NAME)



IT 488847-28-5P, 5-Nitro-2-(2-phenylchroman-6-yloxy)pyridine

488847-51-4P, 6-(5-Nitropyridin-2-yloxy)-2-phenylchroman-4-one

488847-53-6P, 7-(5-Nitropyridin-2-yloxy)-2-phenylchroman-4-one

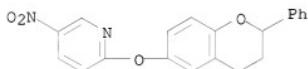
488847-59-2P, 2-[2-(3-Fluorophenyl)chroman-6-yloxy]-5-nitropyridine 488847-69-4P, 5-Nitro-2-(2-phenylchroman-7-yloxy)pyridine 488847-76-3P, 2-[2-(2,4-Dichlorophenyl)chroman-6-yloxy]-5-nitropyridine 488847-84-3P, 2-[2-(3-Chlorophenyl)chroman-6-yloxy]-5-nitropyridine 488847-92-3P, 2-[2-(3,5-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 488847-98-9P, 2-[2-(2,5-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 488848-04-0P, 2-[2-(3-Bromophenyl)chroman-6-yloxy]-5-nitropyridine 488848-12-0P, 2-[2-(4-Ethylphenyl)chroman-6-yloxy]-5-nitropyridine 488848-20-0P, 2-(3-Methyl-2-phenylchroman-6-yloxy)-5-nitropyridine 488848-28-8P, 3-Methyl-6-(5-nitropyridin-2-yloxy)-2-phenylchroman-4-one 488848-30-2P, 2-[2-(2-Fluorophenyl)chroman-6-yloxy]-5-nitropyridine 488848-38-0P, 2-(2,3-Dihydro-2-phenylbenzo[1,4]dioxin-6-yloxy)-5-nitropyridine 488848-54-0P, 5-Nitro-2-(6-phenyl-5,6,7,8-tetrahydronaphthalen-2-yloxy)pyridine 488848-55-1P, 6-(5-Nitropyrnidin-2-yloxy)-2-phenyl-3,4-dihydro-2H-naphthalen-1-one 488848-58-4P 488849-11-2P, 6-Methyl-3-[6-(2-phenylchroman-6-yloxy)pyridin-3-yl]thiourea 488849-15-6P, 6-[2-(2,5-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-17-8P, 6-[2-(2-Fluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-20-3P, 6-[2-(3-Fluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-22-5P, 6-(5-Aminopyridin-2-yloxy)-2-phenylchroman-4-one 488849-33-8P, 2-[2-(4-Trifluoromethylphenyl)chroman-6-yloxy]-5-nitropyridine 488849-37-2P, 6-[2-(4-Trifluoromethylphenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-43-0P, 2-[2-(2,4-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 488849-47-4P, 6-[2-(2,4-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-49-9P, 2-[2-(Chlorophenyl)chroman-6-yloxy]-5-nitropyridine 488849-55-4P, 2-[2-(4-Fluorophenyl)chroman-6-yloxy]-5-nitropyridine 488849-59-8P 488849-61-2P, 2-[2-(2,3-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 488849-71-4P, 2-[3-(3-Fluorophenyl)chroman-7-yloxy]-5-nitropyridine 488849-76-9P, 2-[3-(Phenyl)chroman-7-yloxy]-5-nitropyridine 488849-79-2P, 5-Nitro-2-(2-phenyl-2,3-dihydrobenzo[1,4]oxathien-6-yloxy)pyridine 488849-84-9P, 5-Nitro-2-[2-(4-nitrophenyl)chroman-6-yloxy]pyridine 488849-88-3P, 6-[2-(4-Aminophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-89-4P, 5-Nitro-2-[2-(2-nitrophenyl)chroman-6-yloxy]pyridine 488849-93-0P, 6-[2-(2-Aminophenyl)chroman-6-yloxy]pyridin-3-ylamine 488849-95-2P, 5-Nitro-2-[2-(3-nitrophenyl)chroman-6-yloxy]pyridine 488849-98-5P, 6-[2-(3-Aminophenyl)chroman-6-yloxy]pyridin-3-ylamine 488850-05-1P, 2-[2-(3-Methoxyphenyl)chroman-6-yloxy]-5-nitropyridine 488850-09-5P, 6-[2-(3-Methoxyphenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-53-0P, 2-[2-(2,6-Difluorophenyl)chroman-6-yloxy]-5-nitropyridine 728934-56-3P, 2-[2-(Trifluoromethylphenyl)chroman-6-yloxy]-5-nitropyridine 728934-60-9P, 2-[2-(3-Chloro-4-fluorophenyl)chroman-6-yloxy]-5-nitropyridine 728934-65-4P, 6-[2-(2,3-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-68-7P, 6-[2-(2,6-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-70-1P, 6-[2-(3,5-Difluorophenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-72-3P, 6-[2-(2-Chlorophenyl)chroman-6-yloxy]pyridin-3-ylamine 728934-75-6P, 6-(2-Phenyl-2,3-dihydrobenzo[1,4]oxathien-6-yloxy)pyridin-3-ylamine hydrochloride 728934-77-8P,

6-(5-Aminopyridin-2-yloxy)-2-phenylchromen-4-one 728934-80-3P,
 6-[2-[3-(Pyridin-2-yloxy)phenyl]chroman-6-yloxy]pyridin-3-ylamine
 728935-44-2P, 4-[16-(2-Phenylchroman-6-yloxy)pyridin-3-
 yl]carbamoyl)piperidine-1-carboxylic acid tert-butyl ester
 728935-46-4P, [1-[16-(2-Phenylchroman-6-yloxy)pyridin-3-
 yl]carbamoyl]ethyl carbamic acid tert-butyl ester 728935-48-6P
 728935-50-0P 728935-56-6P 728935-58-8P
 728935-71-5P 728935-74-8P 728935-77-1P
 728935-80-6P 728935-83-9P 728935-85-1P
 728935-87-3P 728936-02-5P 728936-04-7P
 728936-11-6P 728936-17-2P 728936-25-2P
 728936-34-3P 728936-56-9P 728936-58-1P,
 N-[6-(2-[4-Fluorophenyl)chroman-6-yloxy]pyridin-3-yl]-2-azidoacetamide
 728937-23-3P, N-[6-[2-(3-Hydroxyphenyl)chroman-6-yloxy]pyridin-3-
 yl]acetamide

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of pyridine derivs. useful for inhibiting sodium/calcium
 exchange system)

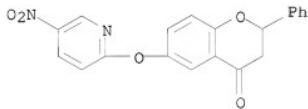
RN 488847-28-5 HCPLUS

CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA
 INDEX NAME)



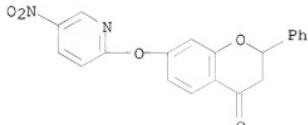
RN 488847-51-4 HCPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)



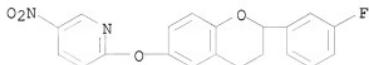
RN 488847-53-6 HCPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-7-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)

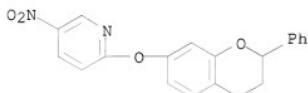


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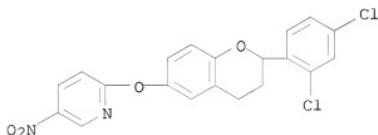
RN 488847-59-2 HCAPLUS
CN Pyridine, 2-[(2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)



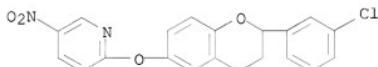
RN 488847-69-4 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-7-yl)oxy]-5-nitro- (CA INDEX NAME)



RN 488847-76-3 HCAPLUS
CN Pyridine, 2-[(2-(2,4-dichlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

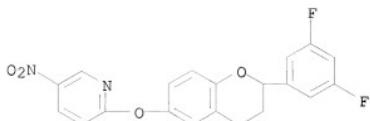


RN 488847-84-3 HCAPLUS
CN Pyridine, 2-[(2-(3-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

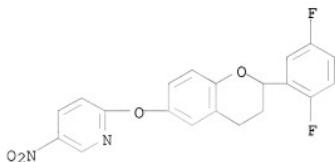


RN 488847-92-3 HCAPLUS
CN Pyridine, 2-[(2-(3,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

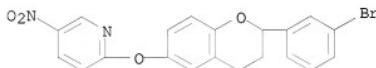
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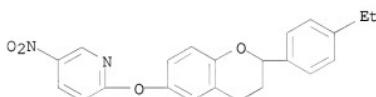
RN 488847-98-9 HCAPLUS
CN Pyridine, 2-[(2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)



RN 488848-04-0 HCAPLUS
CN Pyridine, 2-[(2-(3-bromophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

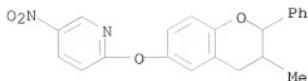


RN 488848-12-0 HCAPLUS
CN Pyridine, 2-[(2-(4-ethylphenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

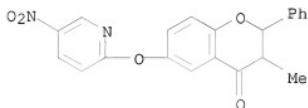


RN 488848-20-0 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-3-methyl-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

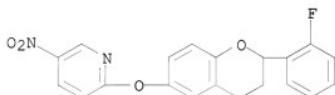
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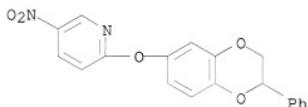
RN 488848-28-8 HCPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-3-methyl-6-((5-nitro-2-pyridinyl)oxy)-2-phenyl- (CA INDEX NAME)



RN 488848-30-2 HCPLUS
CN Pyridine, 2-[(2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

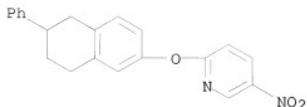


RN 488848-38-0 HCPLUS
CN Pyridine, 2-[(2,3-dihydro-2-phenyl-1,4-benzodioxin-6-yl)oxy]-5-nitro- (CA INDEX NAME)

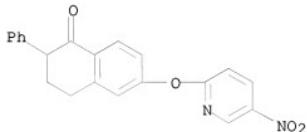


RN 488848-54-0 HCPLUS
CN Pyridine, 5-nitro-2-[(5,6,7,8-tetrahydro-6-phenyl-2-naphthalenyl)oxy]- (CA INDEX NAME)

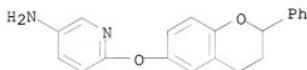
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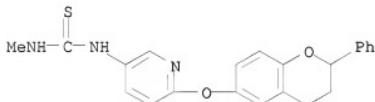
RN 488848-55-1 HCAPLUS
CN 1(2H)-Naphthalenone, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl-
(CA INDEX NAME)



RN 488848-58-4 HCAPLUS
CN 3-Pyridinamine, 6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA
INDEX NAME)

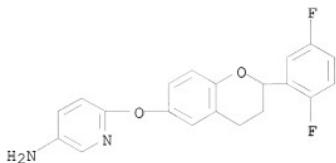


RN 488849-11-2 HCAPLUS
CN Thiourea, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-
pyridinyl]-N'-methyl- (CA INDEX NAME)

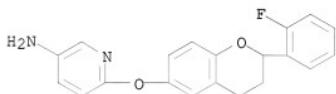


RN 488849-15-6 HCAPLUS
CN 3-Pyridinamine, 6-[(2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-
yl)oxy]- (CA INDEX NAME)

10541677



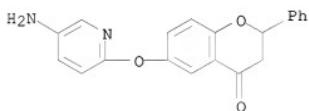
RN 488849-17-8 HCAPLUS
CN 3-Pyridinamine, 6-[(2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



RN 488849-20-3 HCAPLUS
CN 3-Pyridinamine, 6-[(2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)

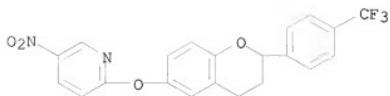


RN 488849-22-5 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[(5-amino-2-pyridinyl)oxyl]-2,3-dihydro-2-phenyl- (CA INDEX NAME)



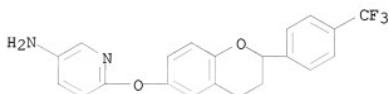
RN 488849-33-8 HCAPLUS
CN Pyridine, 2-[[3,4-dihydro-2-[4-(trifluoromethyl)phenyl]-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)

10541677



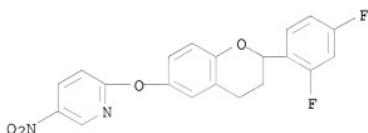
RN 488849-37-2 HCAPLUS

CN 3-Pyridinamine, 6-[(3,4-dihydro-2-[4-(trifluoromethyl)phenyl]-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)



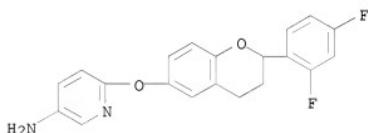
RN 488849-43-0 HCAPLUS

CN Pyridine, 2-[(2-(2,4-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488849-47-4 HCAPLUS

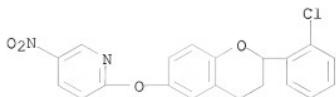
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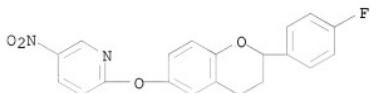
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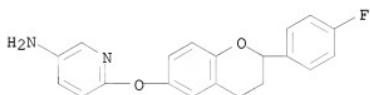
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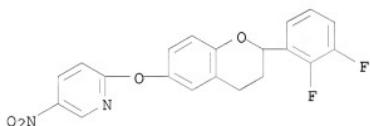
RN 488849-55-4 HCAPLUS
CN Pyridine, 2-[(2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-5-nitro- (CA INDEX NAME)



RN 488849-59-8 HCAPLUS
CN 3-Pyridinamine, 6-[(2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]- (CA INDEX NAME)

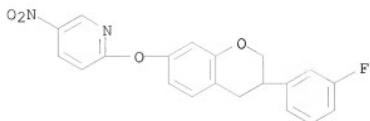


RN 488849-61-2 HCAPLUS
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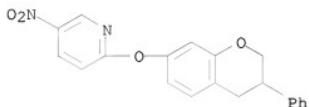


RN 488849-71-4 HCAPLUS
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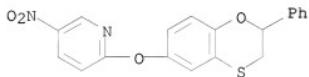
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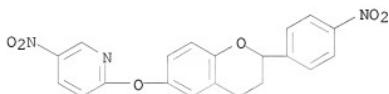
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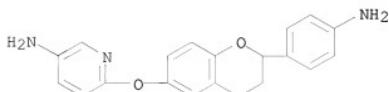
RN 488849-79-2 HCPLUS
CN Pyridine, 2-[(2,3-dihydro-2-phenyl-1,4-benzoxathiin-6-yl)oxy]-5-nitro- (CA INDEX NAME)



RN 488849-84-9 HCPLUS
CN Pyridine, 2-[(3,4-dihydro-2-(4-nitrophenyl)-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)



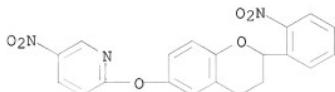
RN 488849-88-3 HCPLUS
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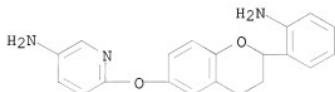
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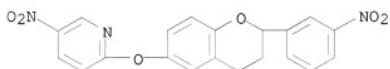
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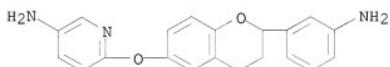
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CN 3-Pyridinamine, 6-[(2-(2-aminophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



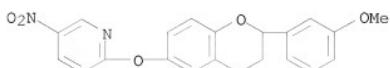
RN 488849-95-2 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-2-(3-nitrophenyl)-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)



RN 488849-98-5 HCAPLUS
CN 3-Pyridinamine, 6-[(2-(3-aminophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)

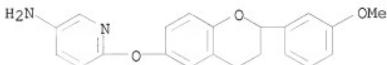


RN 488850-05-1 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-2-(3-methoxyphenyl)-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

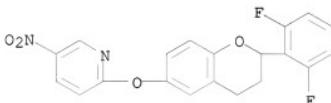


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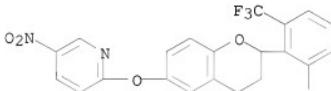
RN 488850-09-5 HCAPLUS
CN 3-Pyridinamine, 6-[{3,4-dihydro-2-(3-methoxyphenyl)-2H-1-benzopyran-6-yl}oxy]- (CA INDEX NAME)



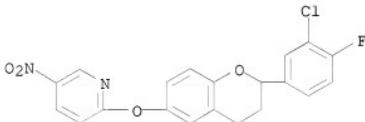
RN 728934-53-0 HCAPLUS
CN Pyridine, 2-[{2-(2,6-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl}oxy]-5-nitro- (CA INDEX NAME)



RN 728934-56-3 HCAPLUS
CN Pyridine, 2-[{3,4-dihydro-2-[2-(trifluoromethyl)phenyl]-2H-1-benzopyran-6-yl}oxy]-5-nitro- (CA INDEX NAME)

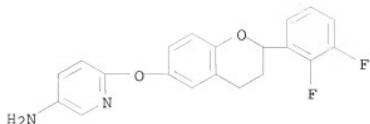


RN 728934-60-9 HCAPLUS
CN Pyridine, 2-[{2-(3-chloro-4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl}oxy]-5-nitro- (CA INDEX NAME)

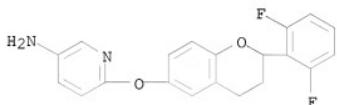


RN 728934-65-4 HCAPLUS
CN 3-Pyridinamine, 6-[{2-(2,3-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl}oxy]- (CA INDEX NAME)

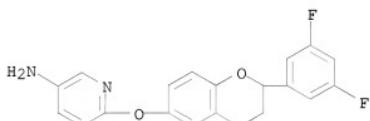
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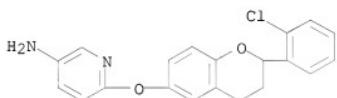
RN 728934-68-7 HCAPLUS
CN 3-Pyridinamine, 6-[(2-(2,6-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



RN 728934-70-1 HCAPLUS
CN 3-Pyridinamine, 6-[(2-(3,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)

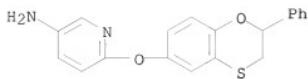


RN 728934-72-3 HCAPLUS
CN 3-Pyridinamine, 6-[(2-(2-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



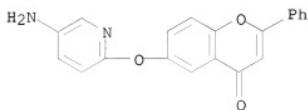
RN 728934-75-6 HCAPLUS
CN 3-Pyridinamine, 6-[(2,3-dihydro-2-phenyl-1,4-benzoxathiin-6-yl)oxy]-, hydrochloride (1:1) (CA INDEX NAME)

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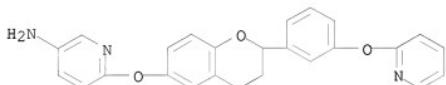


● HCl

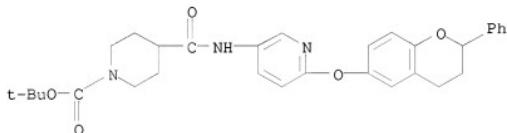
RN 728934-77-8 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[(5-amino-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)



RN 728934-80-3 HCAPLUS
CN 3-Pyridinamine, 6-[(3,4-dihydro-2-[3-(2-pyridinyl)oxy]phenyl)-2H-1-benzopyran-6-yl]oxy- (CA INDEX NAME)

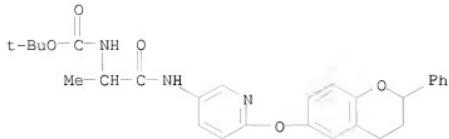


RN 728935-44-2 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 728935-46-4 HCAPLUS
CN Carbamic acid, [2-[(6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl)amino]-1-methyl-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

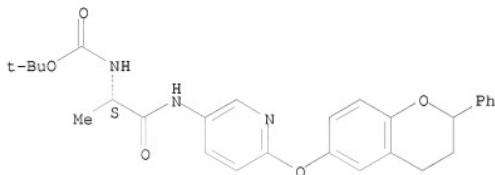
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RN 728935-48-6 HCPLUS

CN Carbamic acid, [(1S)-2-[{6-[{(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl}amino]-1-methyl-2-oxoethyl}-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

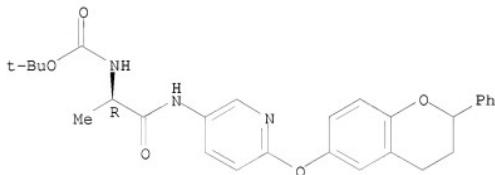
Absolute stereochemistry.



RN 728935-50-0 HCPLUS

CN Carbamic acid, [(1R)-2-[{6-[{(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl}amino]-1-methyl-2-oxoethyl}-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

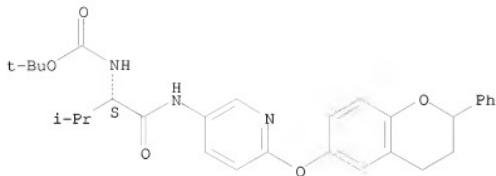


RN 728935-56-6 HCPLUS

CN Carbamic acid, [(1S)-1-[[[6-[{(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl}amino]carbonyl]-2-methylpropyl}-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

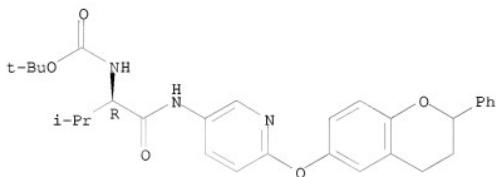
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RN 728935-58-8 HCPLUS

CN Carbamic acid, [(1R)-1-[[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-2-methylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

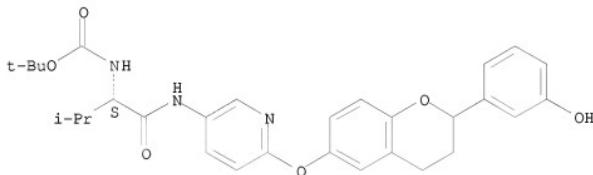
Absolute stereochemistry.



RN 728935-71-5 HCPLUS

CN Carbamic acid, [(1S)-1-[[[6-[(3,4-dihydro-2-(3-hydroxyphenyl)-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-2-methylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



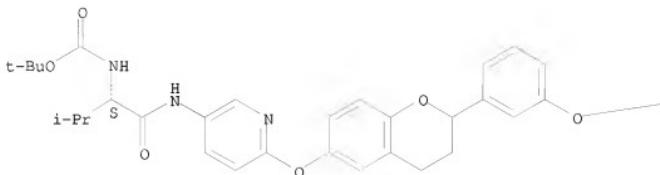
RN 728935-74-8 HCPLUS

CN Carbamic acid, [(1S)-1-[[[6-[(3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxyl]phenyl]-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-2-methylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

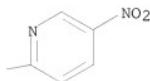
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Absolute stereochemistry.

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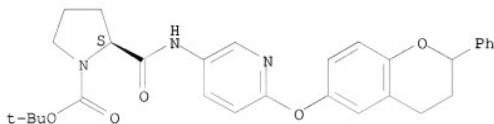
PAGE 1-B



RN 728935-77-1 HCPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

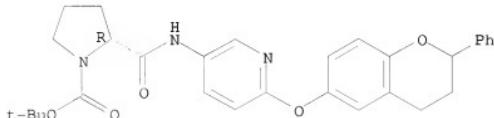
Absolute stereochemistry.



RN 728935-80-6 HCPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2R)- (CA INDEX NAME)

Absolute stereochemistry.



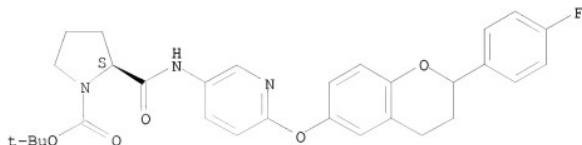
Updated Search

10541677

RN 728935-83-9 HCPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

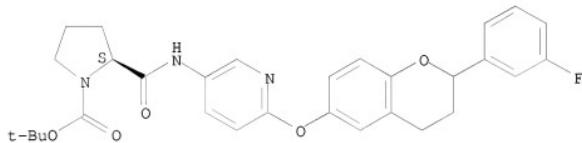
Absolute stereochemistry.



RN 728935-85-1 HCPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

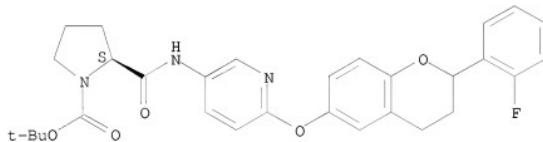
Absolute stereochemistry.



RN 728935-87-3 HCPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

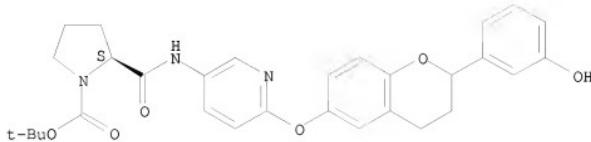


RN 728936-02-5 HCPLUS

CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[3,4-dihydro-2-(3-hydroxyphenyl)-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

10541677

Absolute stereochemistry.

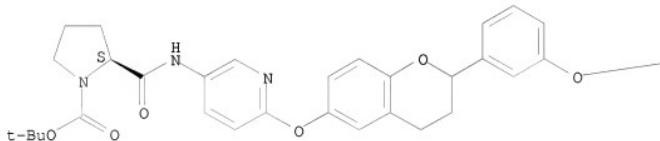


RN 728936-04-7 HCPLUS

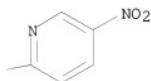
CN 1-Pyrrolidinecarboxylic acid, 2-[[[6-[[3,4-dihydro-2-[3-[(5-nitro-2-pyridinyl)oxyl]phenyl]-2H-1-benzopyran-6-yl]oxy]-3-pyridinyl]amino]carbonyl]-, 1,1-dimethylethyl ester, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

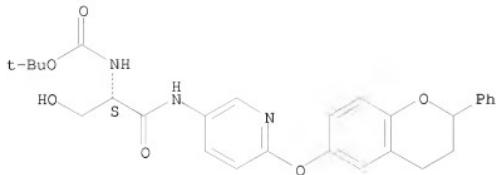


RN 728936-11-6 HCPLUS

CN Carbamic acid, [(1S)-2-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxyl]-3-pyridinyl]amino]-1-(hydroxymethyl)-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

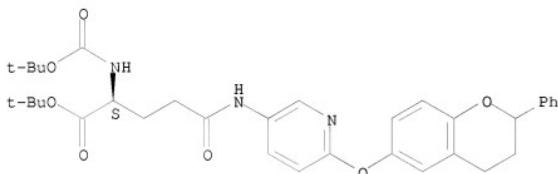
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RN 728936-17-2 HCPLUS

CN L-Glutamine, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N2-[(1,1-dimethylethoxy)carbonyl]-, 1,1-dimethylethyl ester
(CA INDEX NAME)

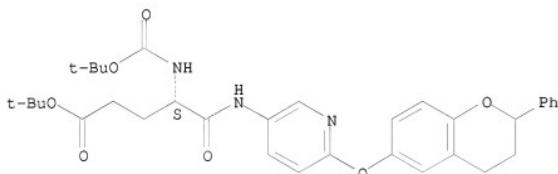
Absolute stereochemistry.



RN 728936-25-2 HCPLUS

CN Pentanoic acid, 5-[[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]amino]-4-[(1,1-dimethylethoxy)carbonyl]amino]-5-oxo-, 1,1-dimethylethyl ester, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



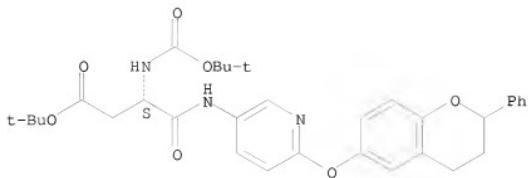
RN 728936-34-3 HCPLUS

CN Butanoic acid, 4-[(6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl)amino]-3-[(1,1-dimethylethoxy)carbonyl]amino]-4-oxo-, 1,1-dimethylethyl ester, (3S)- (CA INDEX NAME)

Absolute stereochemistry.

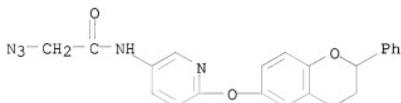
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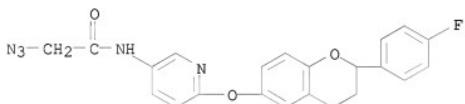
RN 728936-56-9 HCPLUS

CN Acetamide, 2-azido-N-[6-((3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy)-3-pyridinyl]- (CA INDEX NAME)



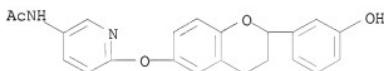
RN 728936-58-1 HCPLUS

CN Acetamide, 2-azido-N-[6-((2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy)-3-pyridinyl]- (CA INDEX NAME)



RN 728937-23-3 HCPLUS

CN Acetamide, N-[6-((3,4-dihydro-2-(3-hydroxyphenyl)-2H-1-benzopyran-6-yl)oxy)-3-pyridinyl]- (CA INDEX NAME)



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ACCESSION NUMBER: 2003:58077 HCPLUS

DOCUMENT NUMBER: 138:122550

TITLE: Preparation of phenyl chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of

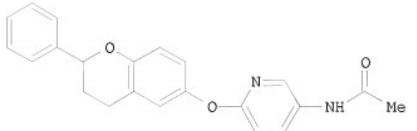
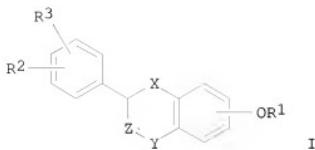
Na+/Ca²⁺ exchange mechanism for treatment of arrhythmias
 INVENTOR(S): Koskelainen, Tuula; Otsoma, Leena;
 Karjalainen, Arto; Kotovuori, Pekka; Tenhunen, Jukka;
 Rasku, Sirpa; Nore, Pentti; Tiainen, Eija;
 Toermaekangas, Olli

PATENT ASSIGNEE(S): Orion Corporation, Finland
 SOURCE: PCT Int. Appl., 98 pp.

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003006452	A1	20030123	WO 2002-FI621	20020710
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
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AU 2002321339	A1	20030129	AU 2002-321339	20020710
AU 2002321339	B2	20070621		
EP 1412343	A1	20040428	EP 2002-755036	20020710
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BR 2002011070	A	20040615	BR 2002-11070	20020710
CN 1525966	A	20040901	CN 2002-813863	20020710
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JP 2005504738	T	20050217	JP 2003-512224	20020710
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NO 2003005821	A	20040224	NO 2003-5821	20031223
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ZA 2004000145	A	20050408	ZA 2004-145	20040108
MX 2004PA00267	A	20040723	MX 2004-PA267	20040109
US 20040235905	A1	20041125	US 2004-482396	20040608
HK 1068611	A1	20070112	HK 2005-100708	20050127
PRIORITY APPLN. INFO.:			FI 2001-1507	A 20010710
			WO 2002-FI621	W 20020710

OTHER SOURCE(S): MARPAT 138:122550
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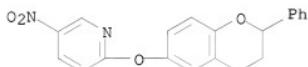


AB Title therapeutically active compds. I [wherein X = O, CH₂, or CO; Z = CHR₉ or bond; Y = CH₂, CO, CHOR₁₀, CHNR₁₁R₁₂, O, S, SO, or SO₂, provided that when Z = a bond, Y ≠ CO; the dashed line = optional double bond when Z = CR₉ and Y = CH, COR₁₀, or CNR₁₁R₁₂; R₁ = (CH₂)_nNR₄R₇ or dihydroimidazolylmethyl or (un)substituted 2-aminophenyl or 2-pyridyl; n = 1-4; R₂ and R₃ = independently H, alkyl, alkoxy, NO₂, halo, CF₃, OH, NHR₈, or CO₂H; R₄ and R₇ = independently H or (hydroxy)alkyl; R₈ = H or acyl; R₉ = H or alkyl; R₁₀ = H, alkylsulfonyl, or acyl; R₁₁ and R₁₂ = independently H, alkyl, or acyl; and pharmaceutically acceptable salts and esters thereof] were prepared as inhibitors of Na⁺/Ca²⁺ exchange mechanism in cells. For example, 6-hydroxyflavanone was reduced to 2-phenylchroman-6-ol and coupled with 2-chloro-5-nitropyridine. Reduction to the amine using glacial acetic acid and Zn powder followed by acetylation gave 5-(acetylamino)-2-(2-phenylchroman-6-yloxy)pyridine (II). The latter delayed the appearance (38 ± 7.5 min vs. vehicle) and decreased the amplitude (74 ± 16 mg vs. vehicle) of ouabain-induced arrhythmias in guinea-pig papillary muscles at a concentration of 30 μM. Thus, I are useful for the treatment of arrhythmias.

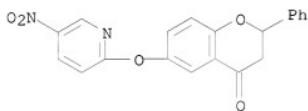
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 488847-55-8P, 6-[(5-Nitropyridin-2-yl)oxyl]-2-phenylchroman-4-ol
 488847-59-2P, 2-[(2-(3-Fluorophenyl)chroman-6-yl)oxyl]-5-nitropyridine 488847-98-9P, 2-[(2-(2,5-Difluorophenyl)chroman-6-yloxy)-5-nitropyridine 488848-30-2P, 2-[(2-(2-Fluorophenyl)chroman-6-yl)oxyl]-5-nitropyridine 488848-58-4P,
 5-Amino-2-[(2-phenylchroman-6-yl)oxyl]pyridine 488849-15-6P,
 [6-[(2-(2,5-Difluorophenyl)chroman-6-yl)oxyl]pyridin-3-yl]amine 488849-17-8P, [6-[(2-(2-Fluorophenyl)chroman-6-yl)oxyl]pyridin-3-yl]amine 488849-20-3P, [6-[(2-(3-Fluorophenyl)chroman-6-yl)oxyl]pyridin-3-yl]amine 488849-33-8P, 5-Nitro-2-[(2-(4-trifluoromethylphenyl)chroman-6-yl)oxyl]pyridine 488849-37-2P,
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[6-[{2-(4-Fluorophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488849-79-2P, 5-Nitro-2-[{2-phenyl-2,3-dihydrobenz[1,4]oxathiin-6-yl]oxy]pyridine 488849-84-9P, 5-Nitro-2-[{2-(4-nitrophenyl)chroman-6-yl]oxy]pyridine 488849-89-4P, 5-Nitro-2-[{2-(2-nitrophenyl)chroman-6-yl]oxy]pyridine 488849-93-0P, [6-[{2-(2-Aminophenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488849-95-2P, 5-Nitro-2-[{2-(3-nitrophenyl)chroman-6-yl]oxy]pyridine 488849-99-6P, 2-(4-Methoxyphenyl)-6-[{5-nitropyridin-2-yl}oxy]chroman-4-ol 488850-00-6P 488850-02-8P, 2-(2-Methoxyphenyl)-6-[{5-nitropyridin-2-yl}oxy]chroman-4-ol 488850-05-1P, 2-[{2-(3-Methoxyphenyl)chroman-6-yl}oxy]-5-nitropyridine 488850-09-5P, [6-[{2-(3-Methoxyphenyl)chroman-6-yl]oxy]pyridin-3-yl]amine 488850-11-9P, 2-(3-Methoxyphenyl)-6-[{5-nitropyridin-2-yl}oxy]chroman-4-ol
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)

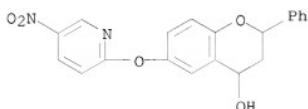
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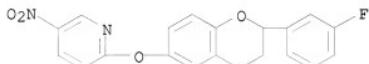


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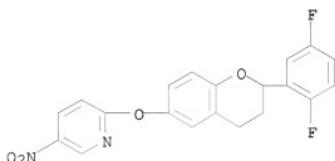


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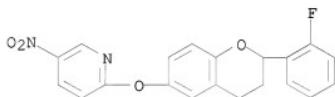
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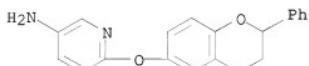
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RN 488848-30-2 HCAPLUS
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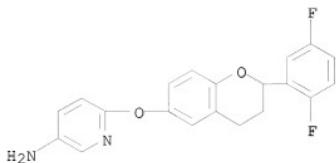


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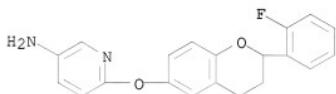


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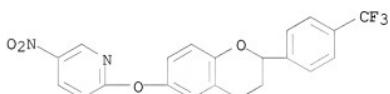
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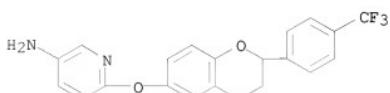
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CN 3-Pyridinamine, 6-[(2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



RN 488849-33-8 HCAPLUS
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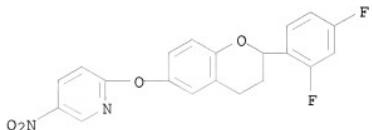
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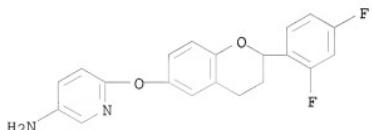
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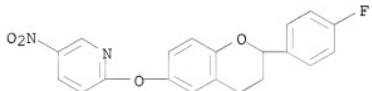
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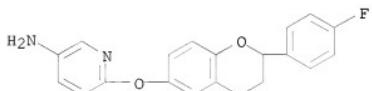
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CN 3-Pyridinamine, 6-[(2-(2,4-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



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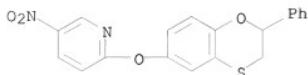
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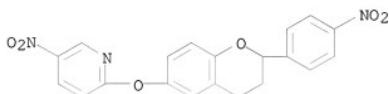
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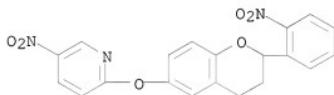
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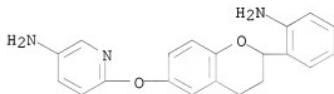
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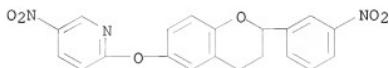
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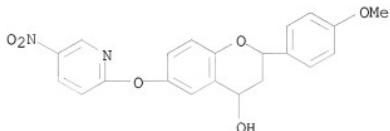


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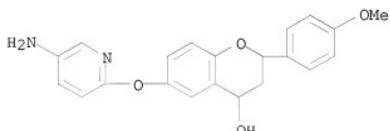


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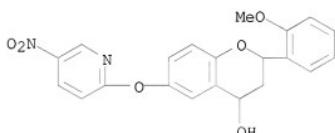
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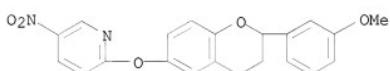
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CN 2H-1-Benzopyran-4-ol, 6-[(5-amino-2-pyridinyl)oxy]-3,4-dihydro-2-(4-methoxyphenyl)- (CA INDEX NAME)



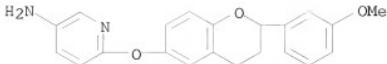
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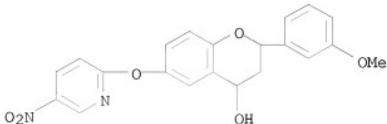
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CN Pyridine, 2-[(3,4-dihydro-2-(3-methoxyphenyl)-2H-1-benzopyran-6-yl)oxy]-5-nitro
(CA INDEX NAME)



RN 488850-09-5 HCPLUS
CN 3-Pyridinamine, 6-[[3,4-dihydro-2-(3-methoxyphenyl)-2H-1-benzopyran-6-yl]oxyl] (CA INDEX NAME)



RN 488850-11-9 HCPLUS
 CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-2-(3-methoxyphenyl)-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



IT 488847-53-6P, 7-[(5-Nitropyridin-2-yl)oxy]-2-phenylchroman-4-one
 488847-69-4P, 5-Nitro-2-[(2-phenylchroman-7-yl)oxy]pyridine
 488847-76-3P, 2-[(2-(2,4-Dichlorophenyl)chroman-6-yl)oxy]-5-nitropyridine 488847-84-3P, 2-[(2-(3-Chlorophenyl)chroman-6-yl)oxy]-5-nitropyridine 488847-92-3P, 2-[(2-(3,5-Difluorophenyl)chroman-6-yl)oxy]-5-nitropyridine 488848-04-0P,
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Trifluoromethylphenyl)chroman-6-yl)oxy]pyridin-3-yl]acetamide
488849-39-4P, N-[6-[(2-(3-Fluorophenyl)chroman-6-yl)oxy]pyridin-3-yl]methanesulfonamide 488849-40-7P, 2-(4-Chlorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-48-5P,
N-[6-[(2-(2,4-Difluorophenyl)chroman-6-yl)oxy]pyridin-3-yl]methanesulfonamide 488849-49-6P, 2-(2,4-Difluorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-50-9P,
2-[(2-(2-Chlorophenyl)chroman-6-yl)oxy]-5-nitropyridine
488849-54-3P, 2-(2-Chlorophenyl)-6-[(5-nitropyridin-2-yl)oxy]chroman-4-ol 488849-60-1P, N-[6-[(2-(4-
Fluorophenyl)chroman-6-yl)oxy]pyridin-3-yl]methanesulfonamide
488849-61-2P, 2-[(2-(3-Difluorophenyl)chroman-6-yl)oxy]-5-
nitropyridine 488849-65-6P, 2-(2,6-Difluorophenyl)-6-[(5-
nitropyridin-2-yl)oxy]chroman-4-ol 488849-68-9P,
6-[(5-Nitropyridin-2-yl)oxy]-2-(2-trifluoromethylphenyl)chroman-4-ol
488849-71-4P, 2-[(3-(3-Fluorophenyl)chroman-7-yl)oxy]-5-
nitropyridine 488849-76-9P, 5-Nitro-2-[(3-phenylchroman-7-
yl)oxy]pyridine 488849-82-7P, 5-Nitro-2-[(4-oxo-2-phenyl-3,4-
dihydrobenzo[1,4]oxathien-6-yl)oxy]pyridine 488849-83-8P,
2-[(4,4-Dioxo-2-phenyl-3,4-dihydrobenzo[1,4]oxathien-6-yl)oxy]-5-
nitropyridine 488849-88-3P, [6-[(2-(4-Aminophenyl)chroman-6-
yl)oxy]pyridin-3-yl]amine 488849-94-1P, N-[6-[(2-(2-
Acetylaminophenyl)chroman-6-yl)oxy]pyridin-3-yl]acetamide
488849-98-5P, [6-[(2-(3-Aminophenyl)chroman-6-yl)oxy]pyridin-3-
yl]amine 488850-01-7P, N-[6-[(4-Hydroxy-2-(4-
methoxyphenyl)chroman-6-yl)oxy]pyridin-3-yl]acetamide 488850-04-0P
, 6-[(5-Aminopyridin-2-yl)oxy]-2-(2-methoxyphenyl)chroman-4-ol
488850-10-8P, N-[6-[(2-(3-Methoxyphenyl)chroman-6-yl)oxy]pyridin-3-
yl]acetamide 488850-12-0P, 6-[(5-Aminopyridin-2-yl)oxy]-2-(3-
methoxyphenyl)chroman-4-ol 488850-13-1P, [6-[(2-Phenyl-2,3-
dihydrobenzo[1,4]oxathien-6-yl)oxy]pyridin-3-yl]amine dihydrochloride
488850-14-2P, N-[6-[(2-Phenyl-2,3-dihydrobenzo[1,4]oxathien-6-
yl)oxy]pyridin-3-yl]acetamide

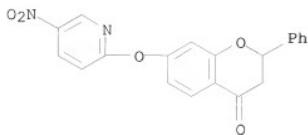
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and
naphthalenes as potent inhibitors of Na+/Ca2+ exchange mechanism for
treatment of arrhythmias)

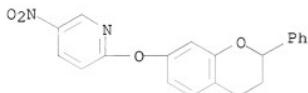
RN 488847-53-6 HCPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-7-[(5-nitro-2-pyridinyl)oxy]-2-phenyl-
(CA INDEX NAME)

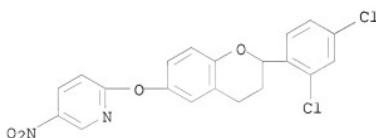
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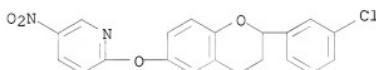
RN 488847-69-4 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-7-yl)oxy]-5-nitro- (CA INDEX NAME)



RN 488847-76-3 HCAPLUS
CN Pyridine, 2-[(2-(2,4-dichlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

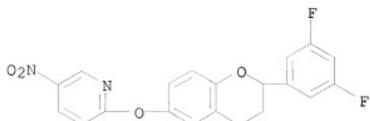


RN 488847-84-3 HCAPLUS
CN Pyridine, 2-[(2-(3-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

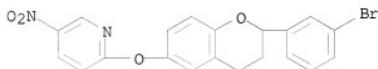


RN 488847-92-3 HCAPLUS
CN Pyridine, 2-[(2-(3,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

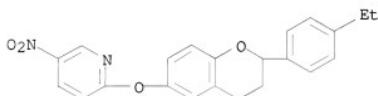
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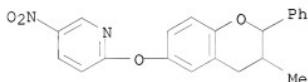
RN 488848-04-0 HCAPLUS
CN Pyridine, 2-[(2-(3-bromophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)



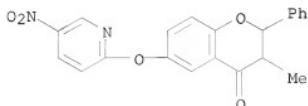
RN 488848-12-0 HCAPLUS
CN Pyridine, 2-[(2-(4-ethylphenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)



RN 488848-20-0 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-3-methyl-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)



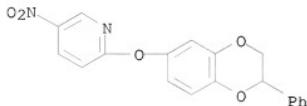
RN 488848-28-8 HCAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-3-methyl-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)



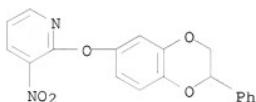
Updated Search

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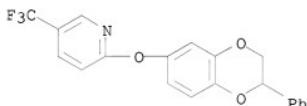
RN 488848-38-0 HCAPLUS
CN Pyridine, 2-[(2,3-dihydro-2-phenyl-1,4-benzodioxin-6-yl)oxy]-5-nitro- (CA INDEX NAME)



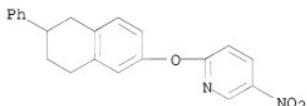
RN 488848-51-7 HCAPLUS
CN Pyridine, 2-[(2,3-dihydro-2-phenyl-1,4-benzodioxin-6-yl)oxy]-3-nitro- (CA INDEX NAME)



RN 488848-53-9 HCAPLUS
CN Pyridine, 2-[(2,3-dihydro-2-phenyl-1,4-benzodioxin-6-yl)oxy]-5-(trifluoromethyl)- (CA INDEX NAME)

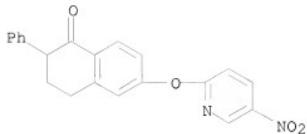


RN 488848-54-0 HCAPLUS
CN Pyridine, 5-nitro-2-[(5,6,7,8-tetrahydro-6-phenyl-2-naphthalenyl)oxy]- (CA INDEX NAME)

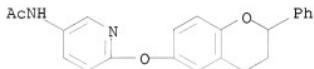


RN 488848-55-1 HCAPLUS
CN 1(2H)-Naphthalenone, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl- (CA INDEX NAME)

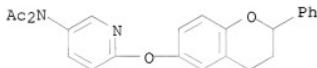
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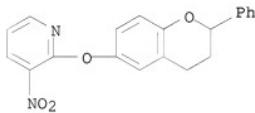
RN 488848-59-5 HCAPLUS
CN Acetamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 488848-60-8 HCAPLUS
CN Acetamide, N-acetyl-N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

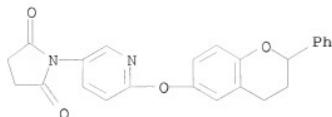


RN 488848-78-8 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-nitro- (CA INDEX NAME)



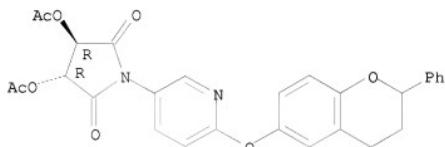
RN 488848-84-6 HCAPLUS
CN 2,5-Pyrrolidinedione, 1-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

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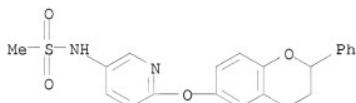


RN 488848-86-8 HCAPLUS
CN 2,5-Pyrrolidinedione, 3,4-bis(acetyloxy)-1-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-, (3R,4R)- (CA INDEX NAME)

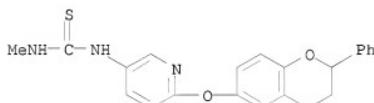
Absolute stereochemistry.



RN 488849-10-1 HCAPLUS
CN Methanesulfonamide, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 488849-11-2 HCAPLUS
CN Thiourea, N-[6-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]-N'-methyl- (CA INDEX NAME)

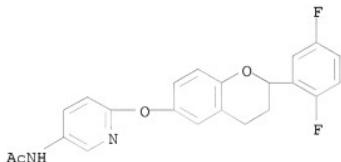


RN 488849-12-3 HCAPLUS
CN Phenol, 3-[3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2H-1-benzopyran-2-yl]- (CA INDEX NAME)

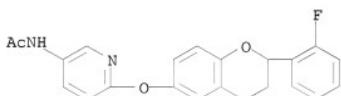
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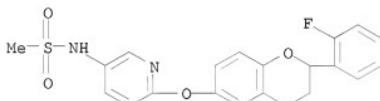
RN 488849-16-7 HCAPLUS
CN Acetamide, N-[6-[(2-(4-nitrophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 488849-18-9 HCAPLUS
CN Acetamide, N-[6-[(2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)



RN 488849-19-0 HCAPLUS
CN Methanesulfonamide, N-[6-[(2-(2-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

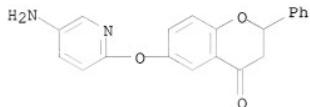


RN 488849-21-4 HCAPLUS
CN Acetamide, N-[6-[(2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

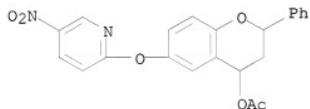
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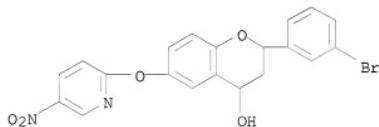
RN 488849-22-5 HCAPLUS
CN 4H-1-Benzopyran-4-one, 6-[(5-amino-2-pyridinyl)oxy]-2,3-dihydro-2-phenyl-
(CA INDEX NAME)



RN 488849-23-6 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-phenyl-,
4-acetate (CA INDEX NAME)

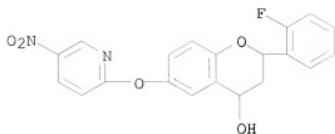


RN 488849-27-0 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 2-(3-bromophenyl)-3,4-dihydro-6-[(5-nitro-2-
pyridinyl)oxy]- (CA INDEX NAME)

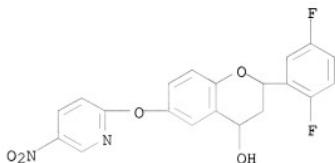


RN 488849-28-1 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 2-(2-fluorophenyl)-3,4-dihydro-6-[(5-nitro-2-
pyridinyl)oxy]- (CA INDEX NAME)

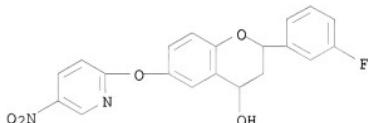
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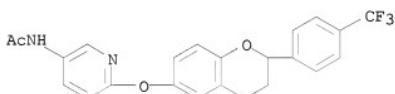
RN 488849-29-2 HCPLUS
CN 2H-1-Benzopyran-4-ol, 2-(2,5-difluorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



RN 488849-30-5 HCPLUS
CN 2H-1-Benzopyran-4-ol, 2-(3-fluorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)

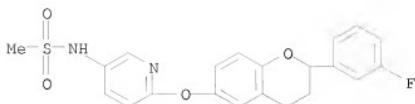


RN 488849-38-3 HCPLUS
CN Acetamide, N-[6-[(3,4-dihydro-2-[4-(trifluoromethyl)phenyl]-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

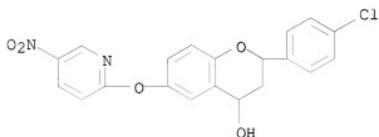


RN 488849-39-4 HCPLUS
CN Methanesulfonamide, N-[6-[(2-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

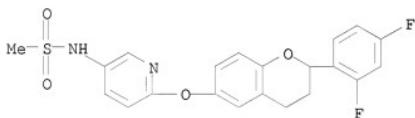
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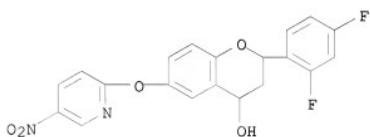
RN 488849-40-7 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 2-(4-chlorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



RN 488849-48-5 HCAPLUS
CN Methanesulfonamide, N-[6-[(2-(2,4-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-2-pyridinyl]- (CA INDEX NAME)

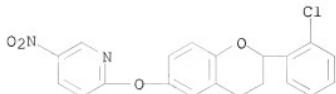


RN 488849-49-6 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 2-(2,4-difluorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)

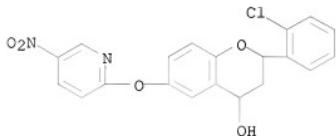


RN 488849-50-9 HCAPLUS
CN Pyridine, 2-[(2-(2-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-nitro- (CA INDEX NAME)

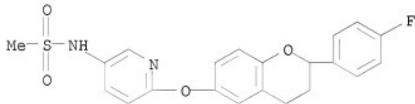
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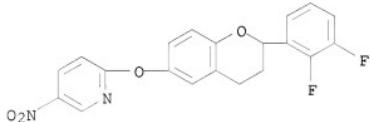
RN 488849-54-3 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 2-(2-chlorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)



RN 488849-60-1 HCAPLUS
CN Methanesulfonamide, N-[6-[(2-(4-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-3-pyridinyl]- (CA INDEX NAME)

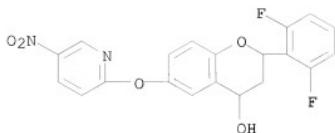


RN 488849-61-2 HCAPLUS
CN Pyridine, 2-[(2-(2-(2,3-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy)-5-nitro- (CA INDEX NAME)

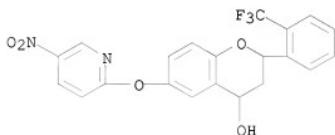


RN 488849-65-6 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 2-(2,6-difluorophenyl)-3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]- (CA INDEX NAME)

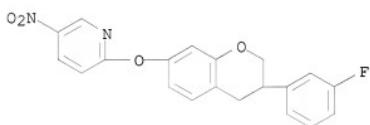
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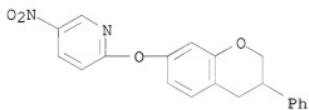
RN 488849-68-9 HCAPLUS
CN 2H-1-Benzopyran-4-ol, 3,4-dihydro-6-[(5-nitro-2-pyridinyl)oxy]-2-[2-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 488849-71-4 HCAPLUS
CN Pyridine, 2-[(3-(3-fluorophenyl)-3,4-dihydro-2H-1-benzopyran-7-yl)oxy]-5-nitro- (CA INDEX NAME)

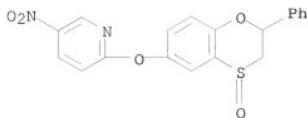


RN 488849-76-9 HCAPLUS
CN Pyridine, 2-[(3,4-dihydro-3-phenyl-2H-1-benzopyran-7-yl)oxy]-5-nitro- (CA INDEX NAME)

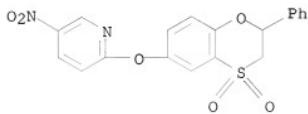


RN 488849-82-7 HCAPLUS
CN Pyridine, 2-[(2,3-dihydro-4-oxido-2-phenyl-1,4-benzoxathiin-6-yl)oxy]-5-nitro- (CA INDEX NAME)

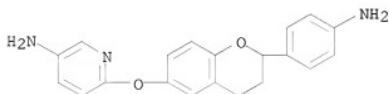
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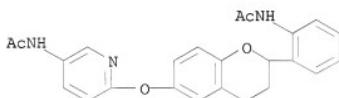
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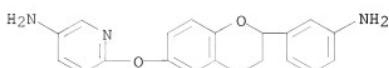
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yl)oxy]- (CA INDEX NAME)



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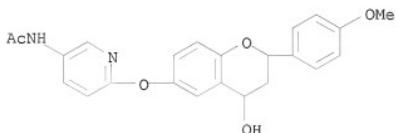
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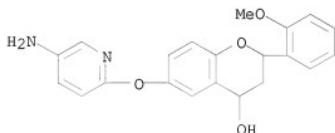
Updated Search

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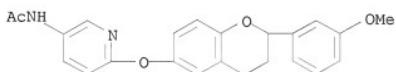
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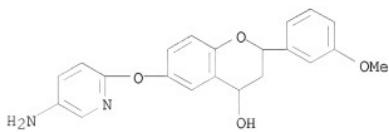
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RN 488850-10-8 HCPLUS
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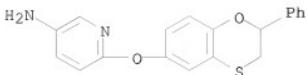
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RN 488850-13-1 HCPLUS
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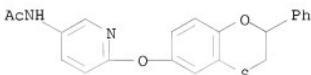
Updated Search

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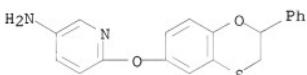


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RN 488850-14-2 HCAPLUS
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IT 488850-15-3, [6-[(2-Phenyl-2,3-dihydrobenzo[1,4]oxathiin-6-yl)oxy]pyridin-3-yl]amine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na+/Ca2+ exchange mechanism for treatment of arrhythmias)
RN 488850-15-3 HCAPLUS
CN 3-Pyridinamine, 6-[(2,3-dihydro-2-phenyl-1,4-benzoxathiin-6-yl)oxy]- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.59	574.36
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CA SUBSCRIBER PRICE	-1.60	-3.20

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database clusters.

- . November 22, 2008 - removed from database clusters
- . December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/CAplus. To learn more about the options available for transferring saved search queries and answer sets to CA/CAplus, contact your STN Service Center.

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Updated Search

10541677

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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stndgen/stndoc/properties.html>

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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCplus now includes complete International Patent Classification (IPC)

Updated Search

10541677

reclassification data for the second quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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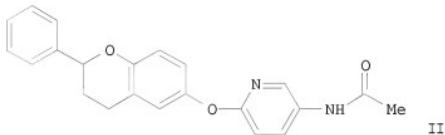
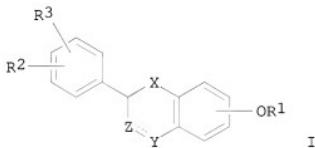
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L26 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:58077 HCAPLUS
DOCUMENT NUMBER: 138:122550
TITLE: Preparation of phenyl chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias
INVENTOR(S): Koskelainen, Tuula; Otsomaa, Leena;
Koskelainen, Arto; Kotovuori, Pekka; Tenhunen, Jukka;
Rasku, Sirpa; Nore, Pentti; Tiainen, Eija;
Toermaekangas, Olli
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003006452	A1	20030123	WO 2002-FI621	20020710
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
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AU 2002321339	A1	20030129	AU 2002-321339	20020710
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EP 1412343	A1	20040428	EP 2002-755036	20020710
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BR 2002011070	A 20040615	BR 2002-11070	20020710
CN 1525966	A 20040901	CN 2002-813863	20020710
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AT 338038	T 20060915	AT 2002-755036	20020710
ES 2269746	T3 20070401	ES 2002-755036	20020710
NO 2003005821	A 20040224	NO 2003-5821	20031223
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ZA 2004000145	A 20050408	ZA 2004-145	20040108
MX 2004PA00267	A 20040723	MX 2004-PA267	20040109
US 20040235905	A1 20041125	US 2004-482396	20040608
HK 1068611	A1 20070112	HK 2005-100708	20050127
PRIORITY APPLN. INFO.:		FI 2001-1507	A 20010710
		WO 2002-FI621	W 20020710

OTHER SOURCE(S): MARPAT 138:122550
GI



AB Title therapeutically active compds. I [wherein X = O, CH₂, or CO; Z = CHR₉ or bond; Y = CH₂, CO, CHOR₁₀, CHNR₁₁R₁₂, O, S, SO, or SO₂, provided that when Z = a bond, Y ≠ CO; the dashed line = optional double bond when Z = CR₉ and Y = CH, COR₁₀, or CNR₁₁R₁₂; R₁ = (CH₂)_nR₄R₇ or dihydroimidazolylmethyl or (un)substituted 2-aminophenyl or 2-pyridyl; n = 1-4; R₂ and R₃ = independently H, alkyl, alkoxy, NO₂, halo, CF₃, OH, NHR₈, or CO₂H; R₄ and R₇ = independently H or (hydroxy)alkyl; R₈ = H or acyl; R₉ = H or alkyl; R₁₀ = H, alkylsulfonyl, or acyl; R₁₁ and R₁₂ = independently H, alkyl, or acyl; and pharmaceutically acceptable salts and esters thereof] were prepared as inhibitors of Na⁺/Ca²⁺ exchange mechanism in cells. For example, 6-hydroxyflavanone was reduced to 2-phenylchroman-6-ol and coupled with 2-chloro-5-nitropyridine. Reduction to the amine using glacial acetic acid and Zn powder followed by acetylation

gave 5-(acetylamino)-2-(2-phenylchroman-6-yloxy)pyridine (II). The latter delayed the appearance (38 ± 7.5 min vs. vehicle) and decreased the amplitude (74 ± 16 mg vs. vehicle) of ouabain-induced arrhythmias in guinea-pig papillary muscles at a concentration of $30 \mu\text{M}$. Thus, I are useful for the treatment of arrhythmias.

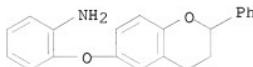
IT 488848-61-9P, 2-[(2-Phenylchroman-6-yl)oxy]aniline

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of $\text{Na}^+/\text{Ca}^{2+}$ exchange mechanism for treatment of arrhythmias)

RN 488848-61-9 HCAPLUS

CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



IT 488847-34-3P, [5-Methoxy-2-[(2-phenylchroman-6-yl)oxy]phenyl]amine hydrochloride 488848-56-2P, 3-Acetylamino-4-[(2-phenylchroman-6-yl)oxy]anisole 488848-64-2P, 5-Trifluoromethyl-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-68-6P,

5-Amino-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-72-2P, 5-Cyano-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-76-6P,

N-Acetyl-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-80-2P, 3-Amino-5-(trifluoromethyl)-2-[(2-phenylchroman-6-yl)oxy]aniline 488849-31-6P;

[2-[(2,5-Difluorophenyl)chroman-6-yl]oxy]-5-ethoxyphenyl]amine hydrochloride 488849-77-0P,

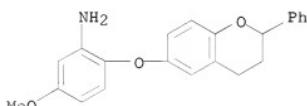
[5-Methoxy-2-[(3-phenylchroman-7-yl)oxy]phenyl]amine hydrochloride

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of $\text{Na}^+/\text{Ca}^{2+}$ exchange mechanism for treatment of arrhythmias)

RN 488847-34-3 HCAPLUS

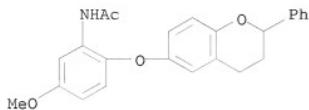
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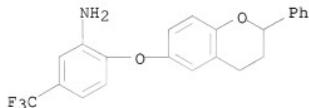
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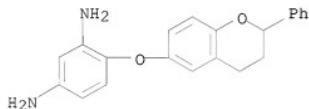
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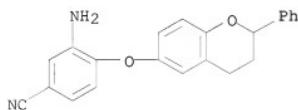
RN 488848-64-2 HCPLUS
CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-(trifluoromethyl)- (CA INDEX NAME)



RN 488848-68-6 HCPLUS
CN 1,3-Benzenediamine, 4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)

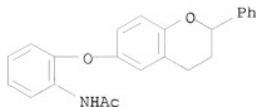


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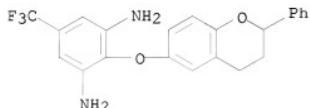


RN 488848-76-6 HCPLUS
CN Acetamide, N-[2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]phenyl]- (CA INDEX NAME)

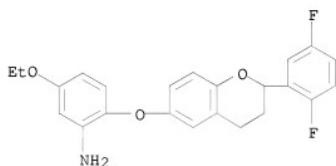
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RN 488848-80-2 HCAPLUS
CN 1,3-Benzenediamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-(trifluoromethyl)- (CA INDEX NAME)

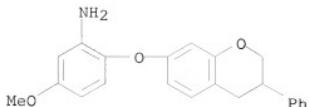


RN 488849-31-6 HCAPLUS
CN Benzenamines, 2-[(2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yl)oxy]-5-ethoxy-, hydrochloride (1:1) (CA INDEX NAME)



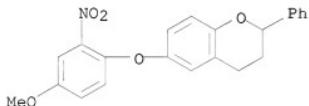
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RN 488849-77-0 HCAPLUS
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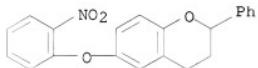


● HCl

- IT 488847-36-5P, 6-(4-Methoxy-2-nitrophenoxy)-2-phenylchroman
 488848-62-0P, 2-Nitro-1-[(2-phenylchroman-6-yl)oxy]benzene
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 , 2,6-Dinitro-1-[(2-phenylchroman-6-yl)oxy]-4-trifluoromethylbenzene
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 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)
- RN 488847-36-5 HCAPLUS
 CN 2H-1-Benzopyran, 3,4-dihydro-6-(4-methoxy-2-nitrophenoxy)-2-phenyl- (CA INDEX NAME)

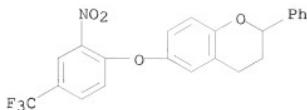


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 CN 2H-1-Benzopyran, 3,4-dihydro-6-(2-nitrophenoxy)-2-phenyl- (CA INDEX NAME)

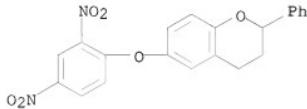


- RN 488848-66-4 HCAPLUS
 CN 2H-1-Benzopyran, 3,4-dihydro-6-[2-nitro-4-(trifluoromethyl)phenoxy]-2-phenyl- (CA INDEX NAME)

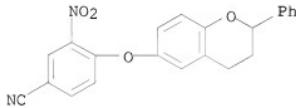
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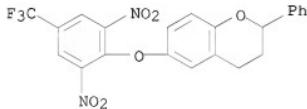
RN 488848-70-0 HCPLUS
CN 2H-1-Benzopyran, 6-(2,4-dinitrophenoxy)-3,4-dihydro-2-phenyl- (CA INDEX NAME)



RN 488848-74-4 HCPLUS
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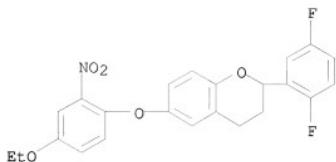


RN 488848-82-4 HCPLUS
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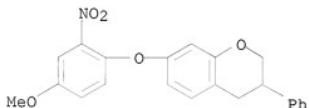


RN 488849-32-7 HCPLUS
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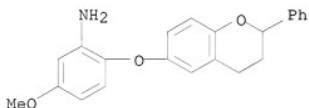
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RN 488849-78-1 HCAPLUS
CN 2H-1-Benzopyran, 3,4-dihydro-7-(4-methoxy-2-nitrophenoxy)-3-phenyl- (CA INDEX NAME)



IT 488848-57-3, 3-Amino-4-[(2-phenylchroman-6-yl)oxy]anisole
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na+/Ca²⁺ exchange mechanism for treatment of arrhythmias)
RN 488848-57-3 HCAPLUS
CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-methoxy- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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10541677

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FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
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L18 232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008
L19 2 S L18
L20 2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008
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FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008
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 5 OTSOMAA, L?/AU
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=> s 127/uses
FIELD CODES CANNOT BE CHANGED HERE
You may have tried to apply a field code to a term that already has a field code. You can only add a field code to a term that has no field code appended to it.

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Updated Search

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L30 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:58077 HCAPLUS
 DOCUMENT NUMBER: 138:122550
 TITLE: Preparation of phenyl chromans, benzo[1,4]dioxins,
 indans, and naphthalenes as potent inhibitors of
 Na⁺/Ca²⁺ exchange mechanism for treatment of
 arrhythmias
 INVENTOR(S): Koskelainen, Tuula; Otsomaa, Leena;
 Karjalainen, Arto; Kotovuori, Pekka; Tenhunen, Jukka;
 Rasku, Sirpa; Nore, Pentti; Tiainen, Eija;
 Toermaekangas, Olli
 PATENT ASSIGNEE(S): Orion Corporation, Finland
 SOURCE: PCT Int. Appl., 98 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003006452	A1	20030123	WO 2002-FI621	20020710
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CA 2452918	A1	20030123	CA 2002-2452918	20020710
AU 2002321339	A1	20030129	AU 2002-321339	20020710
AU 2002321339	B2	20070621		
EP 1412343	A1	20040428	EP 2002-755036	20020710
EP 1412343	B1	20060830		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002011070	A	20040615	BR 2002-11070	20020710
CN 1525966	A	20040901	CN 2002-813863	20020710
HU 2004000391	A2	20041228	HU 2004-391	20020710
HU 2004000391	A3	20080328		
JP 200504738	T	20050217	JP 2003-512224	20020710
JP 4113839	B2	20080709		

NZ 530490	A	20051223	NZ 2002-530490	20020710
AT 338038	T	20060915	AT 2002-755036	20020710
ES 2269746	T3	20070401	ES 2002-755036	20020710
NO 2003005821	A	20040224	NO 2003-5821	20031223
IN 2004KN00013	A	20061103	IN 2004-KN13	20040105
ZA 2004000145	A	20050408	ZA 2004-145	20040108
MX 2004PA00267	A	20040723	MX 2004-PA267	20040109
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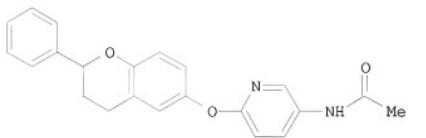
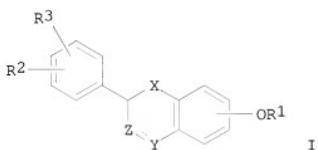
PRIORITY APPLN. INFO.:

FI 2001-1507	A 20010710
WO 2002-FI621	W 20020710

OTHER SOURCE(S):

MARPAT 138:122550

GI



AB Title therapeutically active compds. I [wherein X = O, CH₂, or CO; Z = CHR₉ or bond; Y = CH₂, CO, CHOR₁₀, CHNR₁₁R₁₂, O, S, SO, or SO₂, provided that when Z = a bond, Y ≠ CO; the dashed line = optional double bond when Z = CR₉ and Y = CH, COR₁₀, or CNR₁₁R₁₂; R₁ = (CH₂)_nR₄R₇ or dihydroimidazolylmethyl or (un)substituted 2-aminophenyl or 2-pyridyl; n = 1-4; R₂ and R₃ = independently H, alkyl, alkoxy, NO₂, halo, CF₃, OH, NHR₈, or CO₂H; R₄ and R₇ = independently H or (hydroxy)alkyl; R₈ = H or acyl; R₉ = H or alkyl; R₁₀ = H, alkylsulfonyl, or acyl; R₁₁ and R₁₂ = independently H, alkyl, or acyl; and pharmaceutically acceptable salts and esters thereof] were prepared as inhibitors of Na⁺/Ca²⁺ exchange mechanism in cells. For example, 6-hydroxyflavanone was reduced to 2-phenylchroman-6-ol and coupled with 2-chloro-5-nitropyridine. Reduction to the amine using glacial acetic acid and Zn powder followed by acetylation gave 5-(acetylaminomino)-2-(2-phenylchroman-6-yloxy)pyridine (II). The latter delayed the appearance (38 ± 7.5 min vs. vehicle) and decreased the amplitude (74 ± 16 mg vs. vehicle) of ouabain-induced arrhythmias in guinea-pig papillary muscles at a concentration of 30 μM. Thus, I are useful for the treatment of arrhythmias.

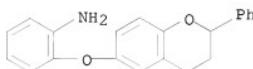
IT 488848-61-9P, 2-[(2-Phenylchroman-6-yl)oxyl]aniline

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)
 (antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)

RN 488848-61-9 HCPLUS

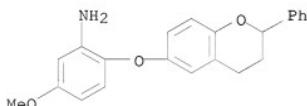
CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



IT 488847-34-3P, [5-Methoxy-2-[(2-phenylchroman-6-yl)oxy]phenyl]amine hydrochloride 488848-56-2P, 3-Acetylamino-4-[(2-phenylchroman-6-yl)oxyl]aniline 488848-64-2P, 5-Trifluoromethyl-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-68-6P, 5-Amino-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-72-2P, 5-Cyano-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-76-6P, N-Acetyl-2-[(2-phenylchroman-6-yl)oxy]aniline 488848-80-2P, 3-Amino-5-(trifluoromethyl)-2-[(2-phenylchroman-6-yl)oxy]aniline 488849-31-6P, [2-[(2-(2,5-Difluorophenyl)chroman-6-yl)oxy]-5-ethoxyphenyl]amine hydrochloride 488849-77-0P, [5-Methoxy-2-[(3-phenylchroman-7-yl)oxyl]phenyl]amine hydrochloride
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (antiarrhythmic; preparation of Ph chromans, benzo[1,4]dioxins, indans, and naphthalenes as potent inhibitors of Na⁺/Ca²⁺ exchange mechanism for treatment of arrhythmias)

RN 488847-34-3 HCPLUS

CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-methoxy-, hydrochloride (1:1) (CA INDEX NAME)

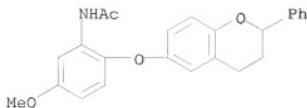


● HCl

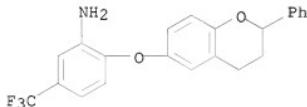
RN 488848-56-2 HCPLUS

CN Acetamide, N-[2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-methoxyphenyl]- (CA INDEX NAME)

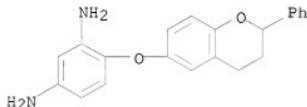
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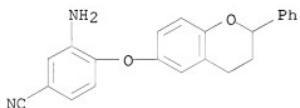
RN 488848-64-2 HCPLUS
CN Benzenamine, 2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]-5-(trifluoromethyl)- (CA INDEX NAME)



RN 488848-68-6 HCPLUS
CN 1,3-Benzenediamine, 4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)

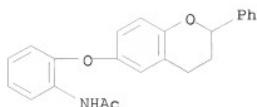


RN 488848-72-2 HCPLUS
CN Benzonitrile, 3-amino-4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)

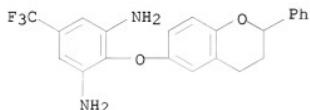


RN 488848-76-6 HCPLUS
CN Acetamide, N-[2-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]phenyl]- (CA INDEX NAME)

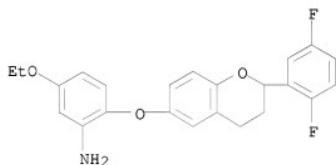
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RN 488848-80-2 HCAPLUS
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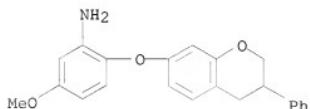


RN 488849-31-6 HCAPLUS
CN Benzenamine, 2-[(2-(2,5-difluorophenyl)-3,4-dihydro-2H-1-benzopyran-6-yloxy)-5-ethoxy-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 488849-77-0 HCAPLUS
CN Benzenamine, 2-[(3,4-dihydro-3-phenyl-2H-1-benzopyran-7-yloxy)-5-methoxy-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

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REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10 STRUCTURE uploaded
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FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008
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FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008
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10541677

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24 LEVIJOKI, J?/AU
L36 0 L31 AND LEVIJOKI, J?/AU

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L31 ANSWER 1 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:191791 HCPLUS

DOCUMENT NUMBER: 148:246497

TITLE: Compositions and methods for potentiating antibiotic activity using an ATP receptor antagonist, coumarin, flavone, or terpene

INVENTOR(S): Cottarel, Guillaume; Gardner, Timothy S.; Lei, Xiaoguang; Porco, John; Schaus, Scott E.; Wierzbowski, Jamey; Pal, Kollol

PATENT ASSIGNEE(S): Trustees of Boston University, USA

SOURCE: PCT Int. Appl., 102pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008019292	A2	20080214	WO 2007-US75093	20070802
WO 2008019292	A3	20080814		
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TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
 GH, GM, KE, LS, MW, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
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PRIORITY APPLN. INFO.: US 2006-835710P P 20060804

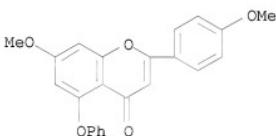
AB The present invention provides compds. that potentiate the activity of antibiotic agents, particularly quinolones, such as norfloxacin. The invention further provides compns., e.g., pharmaceutical compns., comprising the inventive compds. The invention also provides compns. comprising an antibiotic (e.g., a quinolone) and a compound that potentiates activity of the antibiotic and methods of treating a subject comprising administering any of the inventive compds. or compns. to the subject. The invention also provides screening methods to identify compds. that potentiate the activity of an antibiotic, e.g., a quinolone. Thus, both CB101 and CB201 at low concns. (in the lower $\mu\text{g}/\text{mL}$ range) were effective against *Staphylococcus* clin. isolates resistant to ciprofloxacin. CB101 potentiated ciprofloxacin activity after *S. aureus* infection of mice with moderately fluoroquinolone-resistant S7 *Staphylococcus* isolate.

IT 1005519-30-1D, derivs.

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (ATP receptor antagonist, coumarin, flavone, or terpene for potentiating quinolone antibiotic activity)

RN 1005519-30-1 HCAPLUS

CN 4H-1-Benzopyran-4-one, 7-methoxy-2-(4-methoxyphenyl)-5-phenoxy- (CA INDEX NAME)



L31 ANSWER 2 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:86509 HCAPLUS

DOCUMENT NUMBER: 148:509915

TITLE: Anti-inflammatory and anti-allergic drug composition containing biflavonoid derivatives

INVENTOR(S): Kim, Hyeon Pyo; Park, Hae Il; Jang, Hyeyon Uk

PATENT ASSIGNEE(S): Kangwon National University, University-Industry Cooperation Foundation, S. Korea

SOURCE: Repub. Korean Kongkak Taeho Kongbo, 28pp.
 CODEN: KRXXA7

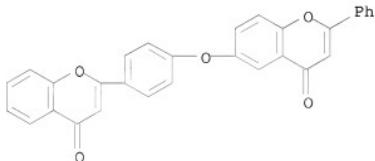
DOCUMENT TYPE: Patent

LANGUAGE: Korean

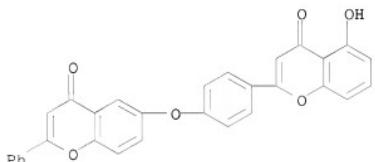
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2007121203	A	20071227	KR 2006-55964	20060621
PRIORITY APPLN. INFO.:			KR 2006-55964	20060621
AB The title anti-inflammatory and anti-allergic drug composition contains biflavonoid derivative or its pharmaceutically acceptable salt as the effective component. Biflavonoid derivs. inhibit the activities of phospholipase A2, thus can be used in drug compns. and healthcare foods that can prevent and treat inflammations and allergies.				
IT 1022125-75-2 1022125-77-4 1022125-78-5 1022125-79-6 1022125-82-1 1022125-85-4 1022125-86-5 1022125-87-6 1022125-88-7 1022125-89-8 1022125-91-2 1022125-95-6 1022125-96-7 1022125-97-8 1022125-98-9 1022126-00-6 1022126-03-9 1022126-05-1 1022126-06-2 1022126-08-4 1022126-09-5 1022126-13-1 1022126-14-2 1022126-16-4 1022126-17-5				
RL: FFD (Food or feed use); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (anti-inflammatory and anti-allergic drug composition containing biflavonoid derivs.)				
RN 1022125-75-2 HCAPLUS				
CN 4H-1-Benzopyran-4-one, 6-[4-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-phenyl- (CA INDEX NAME)				



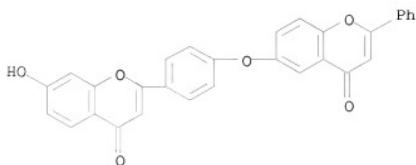
RN 1022125-77-4 HCAPLUS
 CN 4H-1-Benzopyran-4-one, 5-hydroxy-2-[4-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)oxy]phenyl]- (CA INDEX NAME)



RN 1022125-78-5 HCAPLUS
 CN 4H-1-Benzopyran-4-one, 6-[4-(7-hydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-

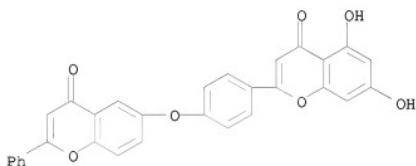
10541677

2-phenyl- (CA INDEX NAME)



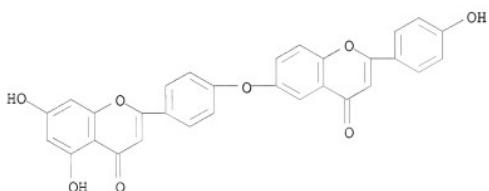
RN 1022125-79-6 HCAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-[4-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)oxy]phenyl]- (CA INDEX NAME)



RN 1022125-82-1 HCAPLUS

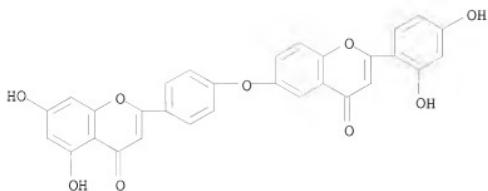
CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-[4-[(2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-6-yl)oxy]phenyl]- (CA INDEX NAME)



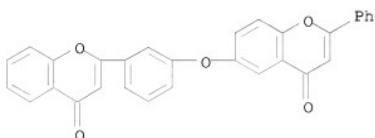
RN 1022125-85-4 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-[4-[(2-(2,4-dihydroxyphenyl)-4-oxo-4H-1-benzopyran-6-yl)oxy]phenyl]-5,7-dihydroxy- (CA INDEX NAME)

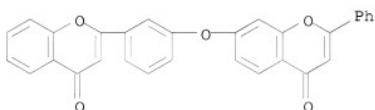
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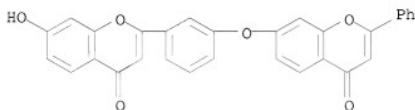
RN 1022125-86-5 HCPLUS
CN 4H-1-Benzopyran-4-one, 6-[3-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-phenyl-
(CA INDEX NAME)



RN 1022125-87-6 HCPLUS
CN 4H-1-Benzopyran-4-one, 7-[3-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-phenyl-
(CA INDEX NAME)



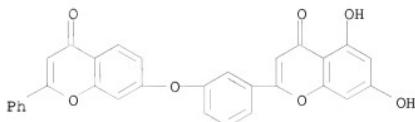
RN 1022125-88-7 HCPLUS
CN 4H-1-Benzopyran-4-one, 7-[3-(7-hydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-
2-phenyl- (CA INDEX NAME)



RN 1022125-89-8 HCPLUS
CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-[3-(4-oxo-2-phenyl-4H-1-benzopyran-

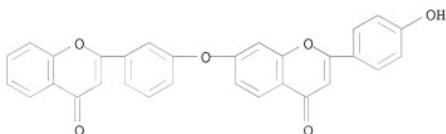
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7-yl)oxy]phenyl]- (CA INDEX NAME)



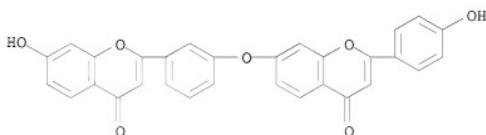
RN 1022125-91-2 HCPLUS

CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-7-[3-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]- (CA INDEX NAME)



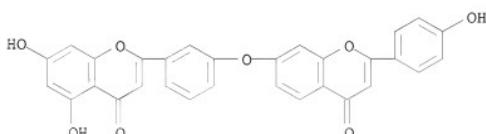
RN 1022125-95-6 HCPLUS

CN 4H-1-Benzopyran-4-one, 7-hydroxy-2-[3-[(2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl)oxygen]phenyl]- (CA INDEX NAME)



RN 1022125-96-7 HCPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-[3-[(2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl)oxygen]phenyl]- (CA INDEX NAME)

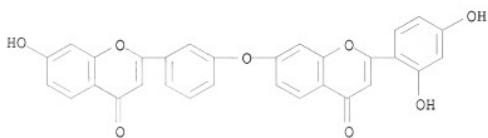


RN 1022125-97-8 HCPLUS

CN 4H-1-Benzopyran-4-one, 2-(2,4-dihydroxyphenyl)-7-[3-(7-hydroxy-4-oxo-4H-1-

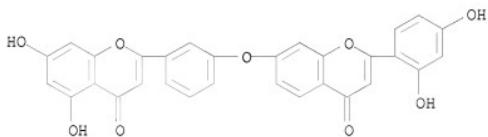
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benzopyran-2-yl)phenoxy]- (CA INDEX NAME)



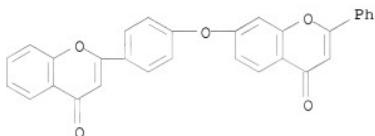
RN 1022125-98-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-[3-[(2,4-dihydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]phenyl]-5,7-dihydroxy- (CA INDEX NAME)



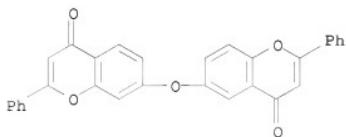
RN 1022126-00-6 HCAPLUS

CN 4H-1-Benzopyran-4-one, 7-[4-(4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-phenyl- (CA INDEX NAME)



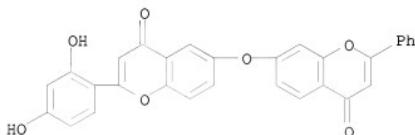
RN 1022126-03-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[(4-oxo-2-phenyl-4H-1-benzopyran-7-yl)oxy]-2-phenyl- (CA INDEX NAME)

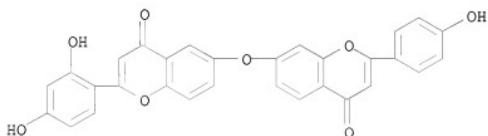


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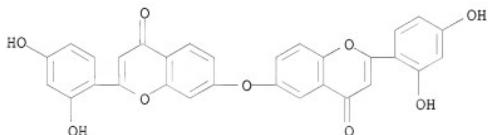
RN 1022126-05-1 HCAPLUS
CN 4H-1-Benzopyran-4-one, 2-(2, 4-dihydroxyphenyl)-6-[(4-oxo-2-phenyl-4H-1-benzopyran-7-yl)oxy]- (CA INDEX NAME)



RN 1022126-06-2 HCAPLUS
CN 4H-1-Benzopyran-4-one, 2-(2, 4-dihydroxyphenyl)-6-[(2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl)oxy]- (CA INDEX NAME)

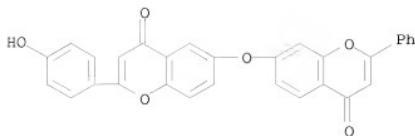


RN 1022126-08-4 HCAPLUS
CN 4H-1-Benzopyran-4-one, 2-(2, 4-dihydroxyphenyl)-6-[(2-(2, 4-dihydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl)oxy]- (CA INDEX NAME)



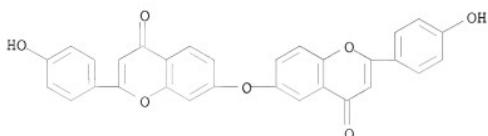
RN 1022126-09-5 HCAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-6-[(4-oxo-2-phenyl-4H-1-benzopyran-7-yl)oxy]- (CA INDEX NAME)

10541677



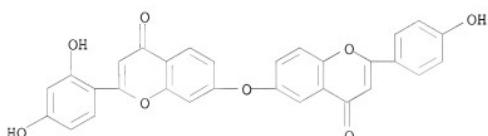
RN 1022126-13-1 HCAPLUS

CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-6-[(2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl)oxy]- (CA INDEX NAME)



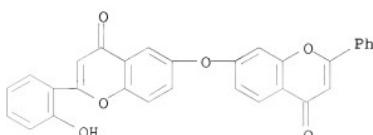
RN 1022126-14-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[(2-(2,4-dihydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl)oxy]-2-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 1022126-16-4 HCAPLUS

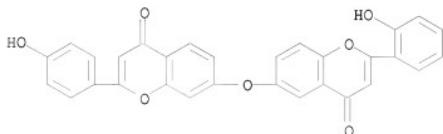
CN 4H-1-Benzopyran-4-one, 2-(2-hydroxyphenyl)-6-[(4-oxo-2-phenyl-4H-1-benzopyran-7-yl)oxy]- (CA INDEX NAME)



RN 1022126-17-5 HCAPLUS

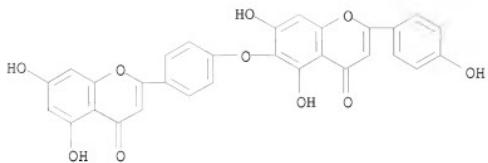
Updated Search

CN 4H-1-Benzopyran-4-one, 2-(2-hydroxyphenyl)-6-[2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yloxy]- (CA INDEX NAME)



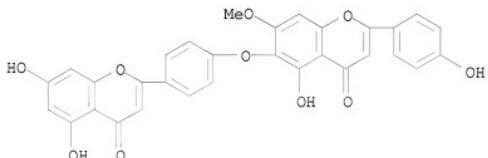
L31 ANSWER 3 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:1158844 HCPLUS
 DOCUMENT NUMBER: 147:474681
 TITLE: Composition containing bisflavone compounds for
 treating gout
 INVENTOR(S): Chen, Keli; Tan, Wenjie; Xu, Jiacheng; Li, Li; Jiang,
 Xueping; Fan, Xiaolei
 PATENT ASSIGNEE(S): Hubei College of Traditional Chinese Medicine, Peop.
 Rep. China
 SOURCE: Faming Zhanli Shengqing Gongkai Shuomingshu, 10pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 101049301	A	20071010	CN 2007-10052157	20070514
PRIORITY APPLN. INFO.: CN 2007-10052157 20070514				
AB The title drug is composed of at least one of purified or un-purified or synthetic robustaflavone, 4'-O-Me robustaflavone, 7''-O-Me robustaflavone, amentoflavone, hinokiflavone, setetsuflavone, isocryptomerin, bilobetin, ginkgetin, imbricataflavone A, imbricataflavone B, agathisflavone, volvensflavone, morelloflavone, and 2'', 3''-dihydro-4'-O-Me amentoflavone, and adjuvant. The drug has remarkable oxidation resistance, can alleviate hyperuricemia and its secondary inflammation, and can prevent and treat gout.				
IT 19202-36-9, Hinokiflavone 20931-58-2, Isocryptomerin RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (composition containing bisflavone compds. for treating gout)				
RN 19202-36-9 HCPLUS CN 4H-1-Benzopyran-4-one, 2-(2-hydroxyphenyl)-6-[2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yloxy]- (CA INDEX NAME)				



RN 20931-58-2 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



L31 ANSWER 4 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:1093960 HCPLUS

DOCUMENT NUMBER: 147:461924

TITLE: Antiplatelet effect and selective binding to cyclooxygenase (COX) by molecular docking analysis of flavonoids and lignans

AUTHOR(S): Wu, Chien-Ming; Wu, Shu-Chun; Chung, Wan-Jung; Lin, Hsien-Cheng; Chen, Kun-Tze; Chen, Yu-Chian; Hsu, Mei-Feng; Yang, Jwu-Maw; Wang, Jih-Pyang; Lin, Chun-Nan

CORPORATE SOURCE: Department of Physical Medicine and Rehabilitation, Yuan's General Hospital, Kaohsiung, 802, Taiwan

SOURCE: International Journal of Molecular Sciences (2007), 8(8), 830-841

CODEN: IJMCFK; ISSN: 1422-0067

URL: <http://www.mdpi.org/ijms/papers/i8080830.pdf>

PUBLISHER: Molecular Diversity Preservation International

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

AB The known flavonoids ginkgetin (1), taiwanhomoflavone A (2), taiwanhomoflavone B (3), and taiwanhomoflavone C (4) and eight known lignans: justicidin B (9), justicidin C (10), justicidin D (11), chinensisaphthol Me ether (12), procumphthalide A (13), procumbenoside A (15), and ciliatosides A (16) and B (17) were isolated from *Cephalotaxus wilsoniana* and *Justicia* species, resp. The antiplatelet effects of the above constituents on human platelet-rich plasma (PRP) were evaluated. Of the compds. tested on human PRP, compds. 1, 4, 9, and 11 showed inhibition of secondary aggregation induced by adrenaline. Compound 1 had an

inhibitory effect on cyclooxygenase-1 (COX-1). Mol. docking studies revealed that 1 and the related compds. apigenin (5), cycloheterophyllin (6), broussoflavone F (7), and quercetin (8) were docked near the gate of active site of COX-1. It indicated that the antiplatelet effect of 1, 4, 9, and 11 is partially owed to suppression of COX-1 activity and reduced thromboxane formation. Flavonoids, 1, 5, 6, 7, and 8 may block the gate of the active site of COX-1 and interfere the conversion of arachidonic acid to prostaglandin (PG) H2 in the COX-1 active site.

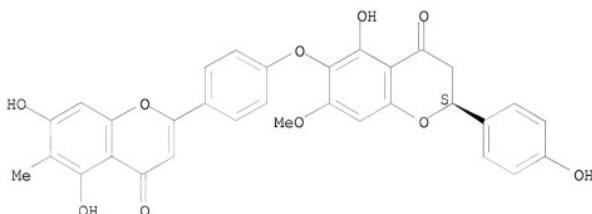
IT 509077-91-2, Taiwanhomoflavone B

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antiplatelet effect and selective binding to cyclooxygenase by mol. docking anal. of flavonoids and lignans)

RN 509077-91-2 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-6-methyl-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2,3-dihydro-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 5 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:966573 HCPLUS

DOCUMENT NUMBER: 147:315008

TITLE: Reca inhibitors with antibiotic activity, compositions and methods of use

INVENTOR(S): Cottarel, Guillaume; Wierzbowski, Jamey; Pal, Kolloi; Kohanski, Michael; Dwyer, Daniel; Collins, James; Almstetter, Michael; Thormann, Michael; Treml, Andreas

PATENT ASSIGNEE(S): Trustees of Boston University, USA; Cellicon Biotechnologies, Inc.; Puretech Ventures

SOURCE: PCT Int. Appl., 95pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007097940 A2 20070830 WO 2007-US3712 20070213
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
 KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
 MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
 RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,
 TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2006-772648P P 20060213
 US 2006-835596P P 20060804

OTHER SOURCE(S): MARPAT 147:315008

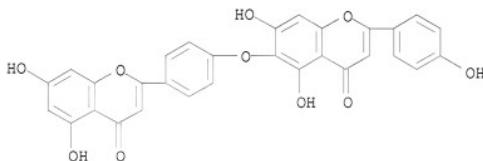
AB The invention is directed to the use of RecA inhibitors as antibiotic agents, and provides RecA inhibitors useful in treating infections. Also provided are various compns. and methods associated with RecA inhibition. Hinokiflavone potentiated the antibiotic activity of ciprofloxacin against *Staphylococcus aureus* by targeting RecA.

IT 19202-36-9, Hinokiflavone

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (antibiotic RecA inhibitor compns. and methods for treatment of microbial infections)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

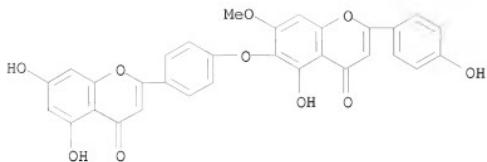


IT 20931-58-2, Isocryptomerin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (antibiotic RecA inhibitor compns. and methods for treatment of microbial infections)

RN 20931-58-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



L31 ANSWER 6 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:941834 HCPLUS

DOCUMENT NUMBER: 147:292162

TITLE: Identification of genes playing a role in bacterial antibiotic resistance and screening for compounds potentiating antibiotics

INVENTOR(S): Cottarel, Guillaume; Wierzbowski, Jamey; Pal, Kolloi; Kohanski, Michael; Dwyer, Daniel; Collins, James; Almstetter, Michael; Thormann, Michael; Treml, Andreas

PATENT ASSIGNEE(S): Trustees of Boston University, USA; Cellicon Biotechnologies, Inc.; Puretech Ventures

SOURCE: PCT Int. Appl., 216pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007095187	A2	20070823	WO 2007-US3698	20070213
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JE, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			US 2006-772648P	P 20060213
			US 2006-835596P	P 20060804

OTHER SOURCE(S): MARPAT 147:292162

AB Chromosomal genes of bacteria that contribute to endogenous resistance to antibiotics are identified. The genes and their products can be targets for inhibitors that potentiate the activity of the antibiotic, such as a quinolone antibiotic. The method can be used to potentiate the activity of antibiotics such as quinolones, aminoglycosides, peptide antibiotics and β -lactams. These agents can also be used to suppress or delay the development of resistance to antibiotics. A whole genome deletion library of Escherichia coli was screened for deletions that modified the

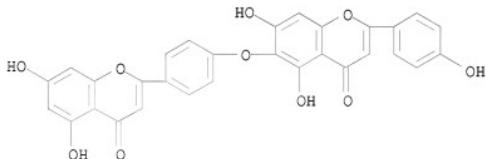
response of the cell to norfloxacin. The screen identified 188 genes affecting fluoroquinolone sensitivity that were common to Escherichia coli and *Staphylococcus aureus*. Mutation in the recA gene increased sensitivity to norfloxacin by 104, so inhibitors of the recA DNA-dependent ATPase may be used in combination with fluoroquinolones. Screening of several libraries identified 14 compds. that inhibit the recA recombinase and increase sensitivity to fluoroquinolones.

IT 19202-36-9, Hinokiflavone

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (as inhibitor of RecA recombinase; identification of genes playing role
 in bacterial antibiotic resistance and screening for compds.
 potentiating antibiotics)

RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yloxy)-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 7 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:502298 HCPLUS

DOCUMENT NUMBER: 146:481157

TITLE: Beverage composition and method of preventing degradation of vitamins in beverages

INVENTOR(S): Roy, Glenn

PATENT ASSIGNEE(S): Pepsico, Inc., USA

SOURCE: Eur. Pat. Appl., 18pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

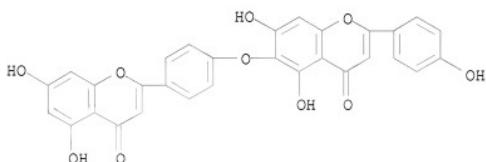
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1782701	A1	20070509	EP 2006-255667	20061103
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
US 20070110851	A1	20070517	US 2005-267376	20051104
CA 2567000	A1	20070504	CA 2006-2567000	20061101
JP 2007125018	A	20070524	JP 2006-298834	20061102
CN 101069563	A	20071114	CN 2006-10130993	20061102
MX 2006PA12784	A	20071010	MX 2006-PA12784	20061103
IN 2006CH02029	A	20071207	IN 2006-CH2029	20061103
PRIORITY APPLN. INFO.:			US 2005-267376	A 20051104

AB A vitamin fortified composition comprising vitamin stabilizers which are C6-C3 phenylpropenoic carbonyl compds. to prevent the degradation of the vitamins is provided. In addition, a method of preventing the degradation of vitamins in a vitamin fortified composition is provided. Thus, a clear lemon-lime carbonated soft drink with vitamin C and ethylene-diaminetetraacetic acid (EDTA) was prepared.

IT 19202-36-9, Hinokiflavone
 RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
 (beverage composition and method of preventing degradation of vitamins in beverages)

RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

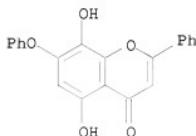


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

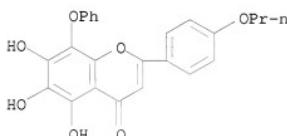
L31 ANSWER 8 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:325265 HCPLUS
 DOCUMENT NUMBER: 147:397867
 TITLE: QSAR analysis of the lipid peroxidation inhibitory activity with structure and energetics of 36 flavonoids derivatives
 AUTHOR(S): Liao, Hsien-Ren; Chang, Yeong-Sheng; Lin, Yu-Chun; Yang, Ling-Ling; Chou, Yu-Ma; Wang, Bo-Cheng
 CORPORATE SOURCE: Department of Chemistry, Tamkang University, Tamsui, 251, Taiwan
 SOURCE: Journal of the Chinese Chemical Society (Taipei, Taiwan) (2006), 53(6), 1251-1261
 CODEN: JCCTAC; ISSN: 0009-4536
 PUBLISHER: Chinese Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The biol. activity relationship of 36 flavonoid compds. was investigated using theor. methods including quant. structure activity relationships (QSAR) and quantum chemical calcln. The results suggested that the 5 and/or 8 positions of the substituents of the hydroxyl group in the A ring and the 3' and 4' positions of substituents of the hydroxyl group in the B ring play an important role in flavonoid biol. activity. This is probably due to the formation of an intramol. hydrogen bond. In addition, the electronic energy, electrostatic energy and bond energy may have an effect on the biol. activity of flavonoids. Also, our anal. has shown that the presence of the 1,4 and 1,2-hydroquinone in the A ring and/or the B ring of flavonoids and the contribution of electronic energy, electrostatic energy

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and bond energy required consideration in the generation of the QSAR model
and that the potential compds. will be predicted out of 36 flavonoids.
IT 951248-45-6 951248-48-9
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic
use); BIOL (Biological study); USES (Uses)
(QSAR of lipid peroxidn. inhibition by 36 flavonoid derivs.)
RN 951248-45-6 HCPLUS
CN 4H-1-Benzopyran-4-one, 5,8-dihydroxy-7-phenoxy-2-phenyl- (CA INDEX NAME)



RN 951248-48-9 HCPLUS
CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-8-phenoxy-2-(4-propoxypyhenyl)-
(CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

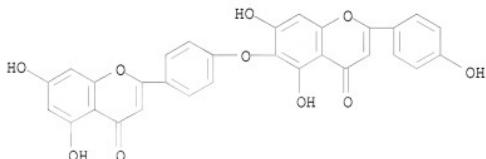
L31 ANSWER 9 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:1190020 HCPLUS
DOCUMENT NUMBER: 146:114940
TITLE: Natural inhibitors targeting osteoclast-mediated bone
resorption
AUTHOR(S): Zeng, Guang-Zhi; Tan, Ning-Hua; Hao, Xiao-Jiang; Mu,
Quan-Zhang; Li, Rong-Tao
CORPORATE SOURCE: State Key Laboratory of Phytochemistry and Plant
Resources in West China, Kunming Institute of Botany,
Chinese Academy of Sciences, Kunming, 650204, Peop.
Rep. China
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006),
16(24), 6178-6180
CODEN: BMCLB8; ISSN: 0960-894X
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Human cathepsin K, matrix metalloproteinase 9, and α V β 3

integrin are the key regulators in osteoclast-mediated bone resorption. In this paper, we found natural inhibitors 1-10 for them by enzyme inhibition assays. Inhibitors 1-7, 8-9, and 10 are novel inhibitors of human cathepsin K, matrix metalloproteinase 9, and α V β 3, resp.

IT 19202-36-9, Hinokiflavone
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (natural inhibitors targeting osteoclast-mediated bone resorption)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

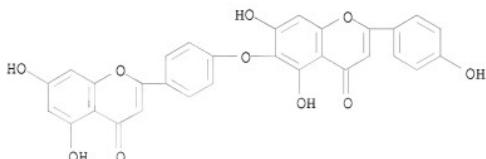


REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 10 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:1186406 HCAPLUS
 DOCUMENT NUMBER: 146:114227
 TITLE: Natural biflavones as novel inhibitors of cathepsin B and K
 AUTHOR(S): Zeng, G.-Z.; Pan, X.-L.; Tan, N.-H.; Xiong, J.; Zhang, Y.-M.
 CORPORATE SOURCE: State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, 650204, Peop. Rep. China
 SOURCE: European Journal of Medicinal Chemistry (2006), 41(11), 1247-1252
 CODEN: EJMC5; ISSN: 0223-5234
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Cathepsin B and K, two important members in lysosomal proteases, involve in many serious human diseases, such as tumor and osteoporosis. In order to find their novel inhibitors, we performed the inhibition assays of cathepsin B and cathepsin K in vitro, randomly screened compds. from plants, and found six biflavones, named AMF1-5 and HIF, can potently inhibit cathepsin B and cathepsin K, especially AMF4 and HIF with IC50 of 0.62 and 0.58 μ M against cathepsin B. They are novel inhibitors for cathepsin B and K. Inhibition and flexible docking studies indicated that these biflavones are reversible inhibitors of cathepsin B, and their binding patterns and interaction modes with cathepsin B made them more specific to cathepsin B endopeptidase.
 IT 19202-36-9, Hinokiflavone

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(natural biflavones as novel inhibitors of cathepsin B and K)
 RN 19202-36-9 HCAPLUS
 CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 11 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:752385 HCAPLUS

DOCUMENT NUMBER: 145:217766

TITLE: Anticancer drug comprising dihydrohinokiflavone or pharmaceutically acceptable salt thereof as active ingredient

INVENTOR(S): Jung, An Sik; Kim, Ae Yeong; Lee, Ho Jae; Park, Su Jin; Yoon, Sang O.

PATENT ASSIGNEE(S): Korea Advanced Institute of Science and Technology, S. Korea

SOURCE: Repub. Korean Kongkiae Taeho Kongbo, No pp. given
 CODEN: KRXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

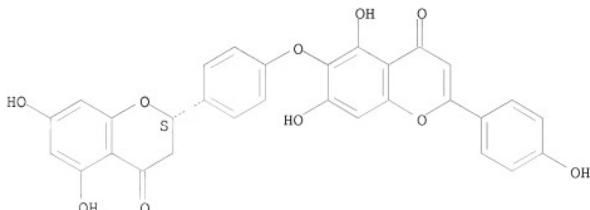
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2004069833	A	20040806	KR 2003-6381	20030130

PRIORITY APPLN. INFO.: KR 2003-6381 20030130
 AB An anticancer drug comprising dihydrohinokiflavone or pharmaceutically acceptable salt thereof as an active ingredient is provided, thereby reducing the expression of matrix metalloproteinases (MMPs) related to metastasis and invasion of cancer cells, and activating p53. The anticancer drug comprises dihydrohinokiflavone isolated from leaves of Metasequoia glyptostroboides or pharmaceutically acceptable salt thereof as an active ingredient, wherein the anticancer drug reduces the expression of matrix metalloproteinase (MMPs) related to metastasis and invasion of cancer cells, the anticancer drug activates p53 related to a cancer inhibitor; and the anticancer drug increases sensitivity of cells to active oxygen species, so that it can be used together with conventional anticancer drug generating active oxygen species.

IT 34292-87-0P
 RL: NPO (Natural product occurrence); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (anticancer drug comprising dihydronokiflavone or pharmaceutically acceptable salt thereof as active ingredient)
 RN 34292-87-0 HCAPLUS
 CN 4H-1-Benzopyran-4-one, 2-[4-[(5,7-dihydroxy-2-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-6-yl)oxy]phenyl]-2,3-dihydro-5,7-dihydroxy-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

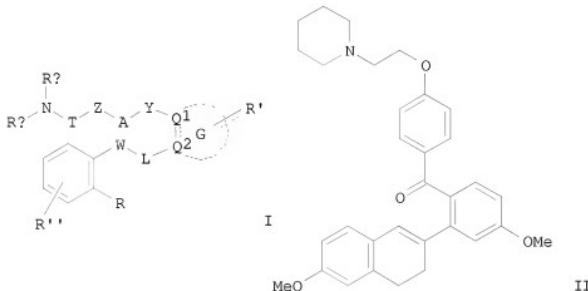


L31 ANSWER 12 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:515356 HCAPLUS
 DOCUMENT NUMBER: 145:7883
 TITLE: Preparation of naphthalene derivatives as selective estrogen receptor modulators
 INVENTOR(S): Hamaoka, Shinichi; Kitazawa, Noritaka; Nara, Kazumasa;
 Sasaki, Atsushi; Kamada, Atsushi; Okabe, Tadashi
 PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan
 SOURCE: U.S. Pat. Appl. Publ., 365 pp., Cont.-in-part of Appl.
 No. PCT/JP03/16808.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060116364	A1	20060601	US 2005-158245	20050622
WO 2004058682	A1	20040715	WO 2003-JP16808	20031225
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,				

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 PRIORITY APPLN. INFO.: JP 2002-378729 A 20021226
 WO 2003-JP16808 A2 20031225

OTHER SOURCE(S): MARPAT 145:7883
 GI



IT 679410-89-0P 722534-26-1P 722534-27-2P

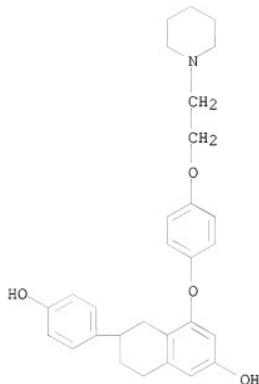
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of naphthalene derivs. as selective estrogen receptor modulators)

RN 679410-89-0 HCPLUS

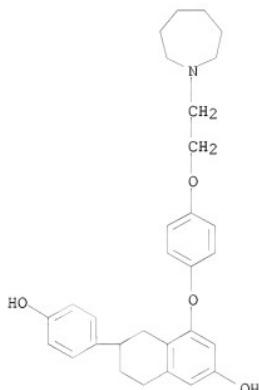
CN 2-Naphthalenol, 5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)-4-[4-[2-(1-piperidinyl)ethoxy]phenoxy]- (CA INDEX NAME)

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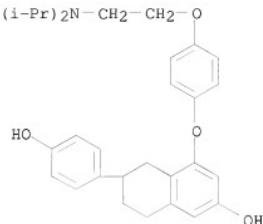
RN 722534-26-1 HCPLUS

CN 2-Naphthalenol, 4-[4-[2-(hexahydro-1H-azepin-1-yl)ethoxy]phenoxy]-5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)- (CA INDEX NAME)

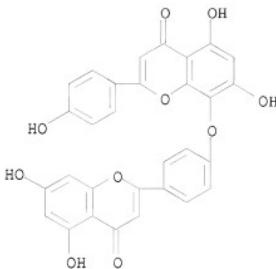


RN 722534-27-2 HCPLUS

CN 2-Naphthalenol, 4-[4-[2-[bis(1-methylethyl)amino]ethoxy]phenoxy]-5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 13 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:389401 HCPLUS
 DOCUMENT NUMBER: 145:305712
 TITLE: Comparative antiplasmodial, leishmanicidal and antitrypanosomal activities of several biflavonoids
 AUTHOR(S): Weniger, B.; Vonthonen-Senecheau, C.; Kaiser, M.; Brun, R.; Anton, R.
 CORPORATE SOURCE: Pharmacognosie et Biomolecules Naturelles Actives, UMR no 7081, Faculte de Pharmacie, Universite Louis Pasteur Strasbourg, Illkirch, 67401, Fr.
 SOURCE: Phytomedicine (2006), 13(3), 176-180
 CODEN: PYTOEY; ISSN: 0944-7113
 PUBLISHER: Elsevier GmbH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The antiplasmodial, leishmanicidal and antitrypanosomal activities of eight natural biflavonoids were estimated in vitro on a chloroquine-resistant strain of Plasmodium falciparum, axenically grown Leishmania donovani amastigotes and Trypanosoma cruzi trypomastigotes and Trypanosoma brucei rhodesiense bloodstream forms. Lanaroflavone showed the highest antiplasmodial activity ($IC_{50} = 0.48 \mu M$), isoginkgetin was the most active leishmanicidal compound ($IC_{50} = 1.9 \mu M$), whereas ginkgetin ($IC_{50} = 11 \mu M$) and isoginkgetin ($IC_{50} = 13 \mu M$) showed the best antitrypanosomal activity in our assays. The cytotoxicity and the selectivity indexes for the most active compds. were also estimated Lanaroflavone exhibited a high selectivity index value ($SI = 159$), indicating selective antiplasmodial activity.
 IT 521-50-6P, Lanaroflavone
 RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (biflavonoid lanaroflavone exhibited strong, moderate antiplasmodial leishmanicidal activity but had no significant effect on antitrypanosomal and cytotoxic activity on rat L-6 myoblast rat cell)
 RN 521-50-6 HCPLUS
 CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 14 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:365476 HCAPLUS

DOCUMENT NUMBER: 145:55743

TITLE: Small Molecule Inhibitors of α -Synuclein Filament Assembly

AUTHOR(S): Masuda, Masami; Suzuki, Nobuyuki; Taniguchi, Sayuri; Oikawa, Takayuki; Nonaka, Takashi; Iwatsubo, Takeshi; Hisanaga, Shin-ichi; Goedert, Michel; Hasegawa, Masato

CORPORATE SOURCE: Department of Molecular Neurobiology, Tokyo Institute of Psychiatry, Tokyo, Setagaya-ku, 156-8585, Japan

SOURCE: Biochemistry (2006), 45(19), 6085-6094

CODEN: BICHAW; ISSN: 0006-2960

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB α -Synuclein is the major component of the filamentous inclusions that constitute defining characteristics of Parkinson's disease and other α -synucleinopathies. Here we have tested 79 compds. belonging to 12 different chemical classes for their ability to inhibit the assembly of α -synuclein into filaments in vitro. Several polyphenols, phenothiazines, porphyrins, polyene macrolides, and Congo red and its derivs., BSB and FSB, inhibited α -synuclein filament assembly with IC₅₀ values in the low micromolar range. Many compds. that inhibited α -synuclein assembly were also found to inhibit the formation of A β and tau filaments. Biochem. anal. revealed the formation of soluble oligomeric α -synuclein in the presence of inhibitory compds., suggesting that this may be the mechanism by which filament formation is inhibited. Unlike α -synuclein filaments and protofibrils, these soluble oligomeric species did not reduce the viability of SH-SY5Y cells. These findings suggest that the soluble oligomers formed in the presence of inhibitory compds. may not be toxic to nerve cells and that these compds. may therefore have therapeutic potential for α -synucleinopathies and other brain amyloidoses.

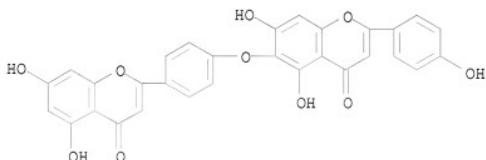
IT 19202-36-9, Hinokiflavone

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU

(Therapeutic use); BIOL (Biological study); USES (Uses)
 (small mol. inhibitors of α -synuclein filament assembly)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 77 THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 15 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 200613734 HCAPLUS

DOCUMENT NUMBER: 144101058

TITLE: Composition for preventing or treating acute or chronic degenerative brain diseases including flavonoid derivatives

INVENTOR(S): Han, Byung-Hee; Kang, Sam-Sik; Son, Kun-Ho

PATENT ASSIGNEE(S): Seoul National University Industry Foundation, S. Korea

SOURCE: PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006001665	A1	20060105	WO 2005-KR1986	20050624
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
KR 200600048	A	20060106	KR 2004-48899	20040628
PRIORITY APPLN. INFO.:			KR 2004-48899	A 20040628

AB Provided is a composition for preventing or treating an acute or chronic degenerative brain disease, the composition including as an effective

ingredient a flavonoid derivative selected from the group consisting of 4',7-dihydroxyflavone; 3',4',7-trihydroxyflavone; 3,3'-di-O-methylquercetin; kaempferide; galangin; morin; amentoflavone; hinokiflavone; ochnaflavone; ochnaflavone 4'-O-Me ether; kaempferol 3-O-(6"-coumaroylglycosyl)(1-2)rhamnoside; quercetin 3-O-(6"-coumaroylglycosyl)(1-2)rhamnoside; kaempferol 3-O-glucosyl(1 → 2)rhamnoside; kaempferol 3-O-2",6"-dirhamnosylglycoside; quercetin 3-O-2",6"-dirhamnosylglycoside; and kaempferol 3-O-rutinoside, and a pharmaceutically acceptable carrier.

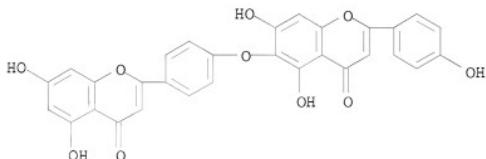
IT 19202-36-9, Hinokiflavone

RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(composition for preventing or treating acute or chronic degenerative brain diseases including flavonoid derivs.)

RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 16 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:841363 HCPLUS

DOCUMENT NUMBER: 144:11250

TITLE: Study on flavonoids in Selaginella tamariscina (Beanuv.) Spring

AUTHOR(S): Zheng, Xiaoke; Shi, Shepo; Bi, Yuefeng; Feng, Weisheng

CORPORATE SOURCE: Henan College of Traditional Chinese Medicine, Zhengzhou, Henan Province, 450008, Peop. Rep. China

SOURCE: Zhongcaoyao (2004), 35(7), 742-743

CODEN: CTYAD8; ISSN: 0253-2670

PUBLISHER: Zhongcaoyao Zazhi Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB Compds. were isolated by various chromatogs. with silica gel. Their structures were elucidated by spectral anal. and chemical evidence. Five compds. were obtained and identified as: neocryptomerin (I), genkwanin (II), apigenin-6,8-di-C- β -glucopyranoside (III), amentoflavone (IV), hinokiflavone (V). Compds. I-III are obtained from this plant for the first time.

IT 19202-36-9, Hinokiflavone 20931-36-6, Neocryptomerin

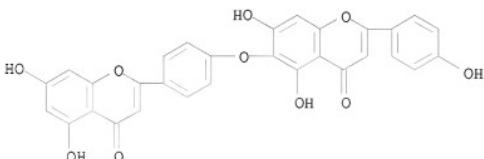
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); THU (Therapeutic use); BIOL (Biological study); OCCU

(Occurrence); USES (Uses)

(study on flavonoids in Selaginella tamariscina (Beanuv.) Spring)

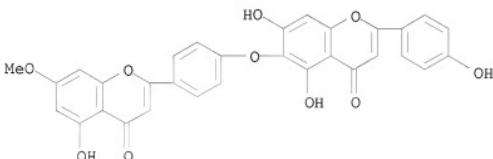
RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 20931-36-6 HCPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-6-[4-(5-hydroxy-7-methoxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 17 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:589380 HCPLUS

DOCUMENT NUMBER: 143:146461

TITLE: Neuroprotective effects of naturally occurring biflavonoids

AUTHOR(S): Kang, Sam Sik; Lee, Ji Yeon; Choi, Yoo Keum; Song, Sun Sook; Kim, Ju Sun; Jeon, Su Jin; Han, Yong Nam; Son, Kun Ho; Han, Byung Hee

CORPORATE SOURCE: Department of Manufacturing Pharmacy, Seoul National University College of Pharmacy, Seoul, 110-460, S. Korea

SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(15), 3588-3591

PUBLISHER: CODEN: BMCL8; ISSN: 0960-894X

DOCUMENT TYPE: Elsevier B.V.

LANGUAGE: Journal

English

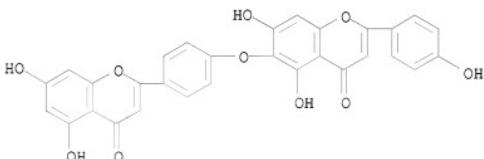
AB We examined neuroprotective effects of naturally occurring biflavonoids on oxidative stress-induced and amyloid β peptide-induced cell death in neuronal cells. Among the nine biflavonoids tested, amentoflavone, ginkgetin, and isoginkgetin exhibited strong neuroprotection against

cytotoxic insults induced by oxidative stress and amyloid β , suggesting their therapeutic potential against neurodegenerative diseases, including ischemic stroke and Alzheimer's disease.

IT 19202-36-9, Hinokiflavone 20931-58-2, Isocryptomerin
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (neuroprotective effects of naturally occurring biflavonoids)

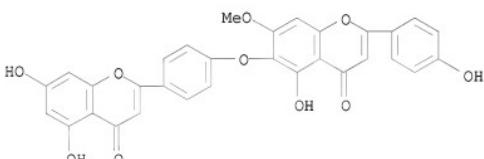
RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 20931-58-2 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 18 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:1027997 HCPLUS

DOCUMENT NUMBER: 142:273383

TITLE: A bioactive biflavanoid from *Campnosperma panamense*
 AUTHOR(S): Weniger, B.; Vonthon-Senecheau, C.; Arango, G. J.;

Kaiser, M.; Brun, R.; Anton, R.
 CORPORATE SOURCE: Laboratoire de Pharmacognosie, Universite Louis Pasteur, Strasbourg, 67401, Fr.

SOURCE: Fitoterapia (2004), 75(7-8), 764-767
 CODEN: FTRPAA; ISSN: 0367-326X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Lanaroflavone, a biflavanoid isolated from the methanol extract of the aerial

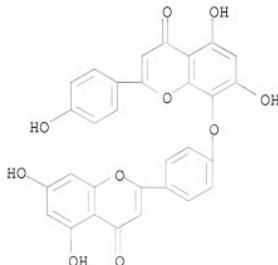
part of *Campnosperma panamensis* by bioguided fractionation, has been assessed for in vitro antiprotozoal activity. Lanaroflavone showed both antimalarial and leishmanicidal activities, but was inactive against the Chagas disease vector, *Trypanosoma cruzi*.

IT 521-50-6P, Lanaroflavone

RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
 (lanaroflavone exhibited bioactivity against *Plasmodium falciparum* K1 chloroquine-resistant strain and moderate activity against *Leishmania donovani* amastigotes but no activity against *Trypanosoma cruzi* trypomastigotes)

RN 521-50-6 HCPLUS

CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 19 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:565187 HCPLUS

DOCUMENT NUMBER: 141:123486

TITLE: Preparation of naphthalene derivatives as selective estrogen receptor modulators

INVENTOR(S): Hamaoka, Shinichi; Kitazawa, Noritaka; Nara, Kazumasa;

Sasaki, Atsushi; Kamada, Atsushi; Okabe, Tadashi

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 982 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

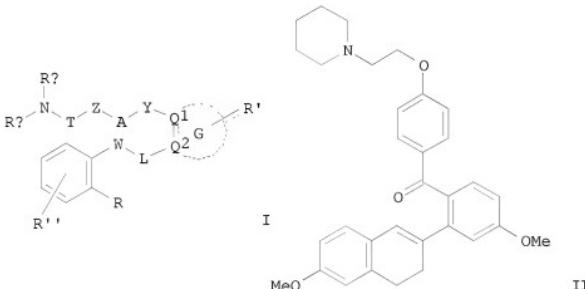
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004058682 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,	A1	20040715	WO 2003-JP16808	20031225

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YA, ZA, ZM, ZW	
RW: BW, GH, GM, KE, LS, MW, MD, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HI, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG	
CA 2512000 A1 20040715 CA 2003-2512000 20031225	
AU 2003292625 A1 20040722 AU 2003-292625 20031225	
AU 2003292625 B2 20080724	
EP 1577288 A1 20050921 EP 2003-782904 20031225	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, EG, CZ, EE, HU, SK	
US 20060116364 A1 20060601 US 2005-158245 20050622	
PRIORITY APPLN. INFO.: JP 2002-378729 A 20021226	
WO 2003-JE16808 W 20031225	

OTHER SOURCE(S): MARPAT 141:123486

GI



AB The title compds. I [wherein T = a single bond, (un)substituted alkylene, alkenylene, or alkyneylene; A = a single bond, (un)substituted heterocycle, (hetero)arylene, or cyclohydrocarbonyl; Y = a single bond, O, S, etc.; Z = CH₂O, O, S, etc.; ring G = (hetero)arylene, heterocycle, etc.; Q1 and Q2 = independently N or C; Ra and Rb = independently H, (un)substituted alkyl, alkenyl, alkyanyl, etc.; W = a single bond, CO, (un)substituted alkylene, NH, etc.; R' = H, O, S, etc.; R'' = H, OH, halo, etc.; R = H, OH, halo, etc.; L = a single bond, (un)substituted alkylene, alkenylene, or alkyneylene] or salts, or hydrates thereof are prepared as selective estrogen receptor modulators. For example, the compound II was prepared in a multi-step synthesis. I showed affinity towards estrogen receptor with K_i of 0.2 to 94 nM in cow.

IT 679410-89-0P 722534-26-1P 722534-27-2P

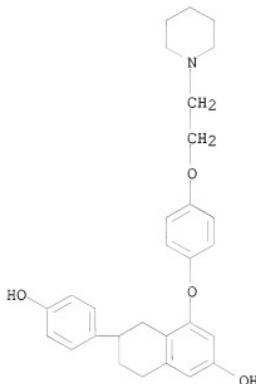
10541677

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of naphthalene derivs. as selective estrogen receptor modulators)

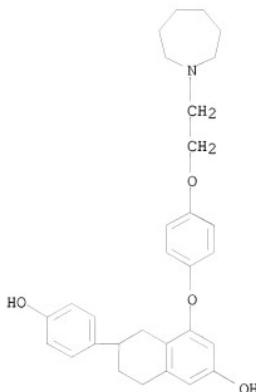
RN 679410-89-0 HCPLUS

CN 2-Naphthalenol, 5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)-4-[4-[2-(1-piperidinyl)ethoxy]phenoxy]- (CA INDEX NAME)

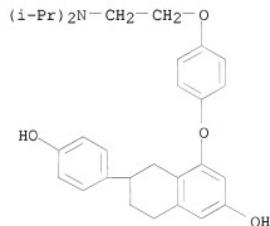


RN 722534-26-1 HCPLUS

CN 2-Naphthalenol, 4-[4-[2-(hexahydro-1H-azepin-1-yl)ethoxy]phenoxy]-5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)- (CA INDEX NAME)



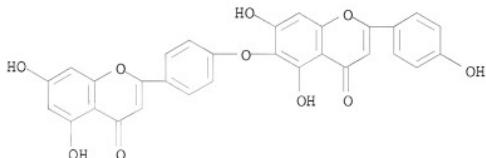
RN 722534-27-2 HCAPLUS
 CN 2-Naphthalenol, 4-[4-[2-[bis(1-methylethyl)amino]ethoxyphenoxy]-5,6,7,8-tetrahydro-6-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 20 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:392089 HCAPLUS
 DOCUMENT NUMBER: 140:405940
 TITLE: Prevention of synthetic color fading in beverages using botanically derived color stabilizers such as phenylpropenoic carbonyl compounds.
 INVENTOR(S): Roy, Glenn; Berardi, Robin; Chan, Wendy; Lee, Thomas
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 14 pp.
 DOCUMENT TYPE: Patent
 CODEN: USXEC0

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040091589	A1	20040513	US 2003-629759	20030730
PRIORITY APPLN. INFO.:			US 2002-399689P	P 20020730
AB Fading of synthetically colored beverages is prevented using botanically derived color stabilizers which are C6-C3 phenylpropenoic carbonyl compds. which contain both unsatn. and oxidation at a carbon atom.				
IT 19202-36-9, Hinokiflavone RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses) (prevention of synthetic color fading in beverages using botanically derived color stabilizers such as phenylpropenoic carbonyl compds.)				
RN 19202-36-9 HCPLUS				
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)				



L31 ANSWER 21 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:344802 HCPLUS

DOCUMENT NUMBER: 141:33331

TITLE: A semi-empirical study of biflavonoid compounds with biological activity against tuberculosis

AUTHOR(S): Dias, J. C.; Rebelo, M. M.; Alves, C. N.

CORPORATE SOURCE: Centro de Ciencias Exatas e Naturais, Departamento de Quimica, Universidade Federal do Para, Belem, PA, 66075-110, Brazil

SOURCE: THEOCHEM (2004), 676(1-3), 83-87
CODEN: THEODJ; ISSN: 0166-1280

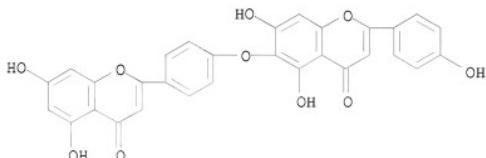
PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Biflavonoids are a series of naturally occurring with a variety of biol. activities. In this work the PM3 semi-empirical method was employed to calculate a set of mol. properties (variables or descriptors) of 28 biflavonoid compds. with inhibitory activity against Mycobacterium tuberculosis H37Rv (Mtb). We have observed a correlation between the heat of formation (Hf), log of the octanol/water partition coefficient (log P) or hydration energy (HE) and the antituberculosis activity. The active compds. present larger values for log P, Hf, and HE. These results suggest that it is possible, in principle, to select the most (or the least) promising mols. from a series of untested biflavonoid mols., simply

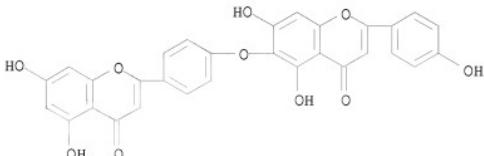
by comparing their Hf, log P, or HE.
 IT 19202-36-9
 RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (semi-empirical study of biflavonoids with activity against tuberculosis)
 RN 19202-36-9 HCPLUS
 CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 22 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:344775 HCPLUS
 DOCUMENT NUMBER: 141:33330
 TITLE: A study on the anti-HIV activity of biflavonoid compounds by using quantum chemical and chemometric methods
 AUTHOR(S): Molfetta, F. A.; Honorio, K. M.; Alves, C. N.; da Silva, A. B. F.
 CORPORATE SOURCE: Instituto de Quimica de Sao Carlos, Departamento de Quimica e Fisica Molecular, Universidade de Sao Paulo, Sao Carlos, 13560-970, Brazil
 SOURCE: THEOCHEM (2004), 674(1-3), 191-197
 CODEN: THEODJ; ISSN: 0166-1280
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A set of 14 biflavonoid compds. with anti-human immunodeficiency virus (anti-HIV) activity is studied by using quantum chemical and chemometric methodologies with the aim to calculate some mol. properties and correlate them with the biol. activity. The AM1 semi-empirical method was used to calculate the mol. properties of the 14 biflavonoid compds. and the chemometric methods stepwise discriminant anal. (SDA), K-nearest neighbors (KNN) and soft independent modeling of class analogy (SIMCA) were used to obtain the relation between the calculated properties and the biol. activity under study. Afterwards we used the results obtained with SDA, KNN and SIMCA to predict the anti-HIV activity of a new set of biflavonoid mols.
 IT 19202-36-9
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (anti-HIV activity of biflavonoid compds. by using quantum chemical and chemometric methods)

RN 19202-36-9 HCPLUS
 CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 23 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:33982 HCPLUS
 DOCUMENT NUMBER: 140:105231
 TITLE: Biflavonoids, flavonoids, chalcones and chalcone-like compounds and use against mycobacterium infections
 INVENTOR(S): Lin, Yuh-meei
 PATENT ASSIGNEE(S): Advanced Life Sciences, Inc., USA
 SOURCE: U.S., 19 pp., Cont.-in-part of U.S. Provisional Ser. No. 155,519.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6677350	B1	20040113	US 2000-667131	20000921
WO 2001021164	A2	20010329	WO 2000-US26196	20000922
WO 2001021164	A3	20020110		
W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1217995	A2	20020703	EP 2000-963753	20000922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
US 20040147597	A1	20040729	US 2004-755682	20040112
PRIORITY APPLN. INFO.:			US 1999-155519P	P 19990922
			US 2000-667131	A2 20000921
			WO 2000-US26196	W 20000922

OTHER SOURCE(S): MARPAT 140:105231

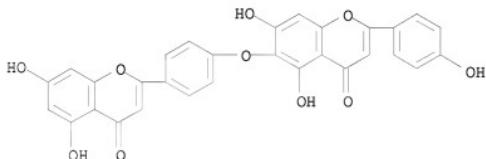
AB The present invention relates to compds., compns. and methods for the prevention or treatment of mycobacterium infections. The compds. are naturally occurring and synthetic biflavonoids, flavonoids, chalcones and chalcone like compds. The anti-mycobacterium compds. have the structure: R1C(O)CH=CHR2 (R1 = 4-fluorophenyl-, 3-hydroxyphenyl-, pyridin-3-yl-, etc.; R2 = pyridin-3-yl-, phenanthren-9-yl-, phenanthren-9-yl-, phenyl-, 2-aminopyridino-3-yl-, 2-aminopyridino-3-yl-, etc.). The compds. were screened for anti-mycobacterium activity. Of the compds. showing anti-mycobacterium activity, eight were identified as particularly potent, exhibiting greater than 90% inhibition of the growth of Mycobacterium tuberculosis (Mtb) at a concentration of 12.5 µg/mL. The actual min. inhibitory concns. (MIC), defined as the lowest concentration inhibiting 99% of the inoculum, for the preferred compds. ranged from 6.8 to 48.3 µM.

IT 19202-36-9

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(anti-tuberculosis activity of; biflavonoids, flavonoids, chalcones and chalcone-like compds. and use against mycobacterium infections)

RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 134 THERE ARE 134 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 24 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:425422 HCPLUS

DOCUMENT NUMBER: 137:692

TITLE: Biflavonoids and derivatives thereof as antiviral agents

INVENTOR(S): Lin, Yuh-Meei; Zembower, David E.; Flavin, Michael T.;

Schure, Ralph; Zhao, Geng-Xian

PATENT ASSIGNEE(S): Advanced Life Sciences, Inc., USA
SOURCE: U.S., 37 pp., Cont.-in-part of U. S. Ser. No. 842,625,
abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 6399654	B1	20020604	US 1998-60839	19980415
US 5773462	A	19980630	US 1996-668284	19960621
EP 1245230	A2	20021002	EP 2002-10287	19960621
EP 1245230	A3	20031126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
WO 9846238	A1	19981022	WO 1998-US7649	19980415
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9871243	A	19981111	AU 1998-71243	19980415
US 20020068757	A1	20020606	US 2001-761909	20010117
PRIORITY APPLN. INFO.:				
		US 1995-465P	P 19950623	
		US 1996-668284	A2 19960621	
		US 1997-842625	B2 19970415	
		EP 1996-921740	A3 19960621	
		US 1998-60839	A 19980415	
		WO 1998-US7649	W 19980415	

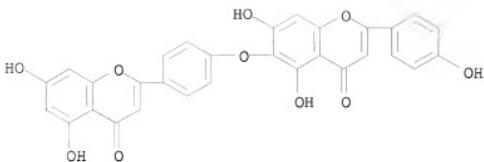
AB Substantially purified antiviral biflavonoids robustaflavone, hinokiflavone, amentoflavone, agathisflavone, volvensflavone, morelloflavone, rhusflavanone, succedaneaflavanone, GB-1a, and GB-2a are provided. Antiviral biflavonoid derivs. and salt forms thereof, e.g., robustaflavone tetrasulfate potassium salt, and methods for preparing them, are also disclosed. Pharmaceutical compns. which include the antiviral biflavonoids, derivs. or salts thereof, are also provided alone or in combination with at least one antiviral agent, e.g. 3TC. Also disclosed is an improved method for obtaining substantially pure robustaflavone from plant material. The biflavanoid compds., derivs. or salts thereof of the invention may be used in a method for treating and/or preventing viral infections caused by viral agents, e.g. influenza (e.g. influenza A and B), hepatitis (e.g. hepatitis B), human immunodeficiency virus (e.g. HIV-1), Herpes viruses (HSV-1 and HSV-2), Varicella Zoster virus (VZV), and measles. For instance, semi-synthetic hexa-O-acetate and hexa-O-Me ether derivs. of robustaflavone have been found to be effective in a method for treating or preventing hepatitis B viral infections. Compns. which include these robustaflavone derivs. along with methods for preparing and using the same are also provided. These compns. may be used alone or in combination with at least one antiviral agent such as 3TC.

IT 19202-36-9P, Hinokiflavone

RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(biflavonoids and derivs. as antiviral agents)

RN 19202-36-9 HCPLUS

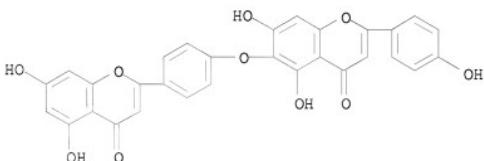
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



IT 19202-36-9D, Hinokiflavone, derivs.
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(biflavanoids and derivs. as antiviral agents)

RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 99 THERE ARE 99 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 25 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:418315 HCPLUS

DOCUMENT NUMBER: 135:205164

TITLE: Effects of constituents from the bark of Magnolia obovata on nitric oxide production in lipopolysaccharide-activated macrophages

AUTHOR(S): Matsuda, Hisashi; Kageura, Tadashi; Oda, Mamiko; Morikawa, Toshio; Sakamoto, Yasuko; Yoshikawa, Masayuki

CORPORATE SOURCE: Kyoto Pharmaceutical University, Kyoto, 607-8412, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (2001), 49(6), 716-720

PUBLISHER: CODEN: CPBTAL; ISSN: 0009-2363
Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The methanolic extract from a Japanese herbal medicine, the bark of Magnolia obovata, was found to inhibit nitric oxide (NO) production in lipopolysaccharide (LPS)-activated macrophages. By bioassay-guided separation, three neolignans (magnolol, honokiol, obovatol) and three sesquiterpenes (α -eudesmol, β -eudesmol, γ -eudesmol) were obtained as

active constituents. A trineolignan (magnolianin), a phenylpropanoid glycoside (syringin), lignan glycosides (liriodendrin, (+)-syringaresinol 4'-O- β -D-glucopyranoside) and a sesquiterpene (caryophyllene oxide) did not show any activity. On the other hand, sesquiterpene-neolignans (eudesmagnolol, clovanemagnolol, caryolanemagnolol, eudeshonkiol A, eudesbovatol A) showed the strong cytotoxic effects. Active constituents (magnolol, honokiol, obovatol) showed weak inhibition for inducible NO synthase (iNOS) enzyme activity, but potent inhibition of iNOS induction and activation of nuclear factor- κ B.

IT 147663-91-0P, Magnolianin

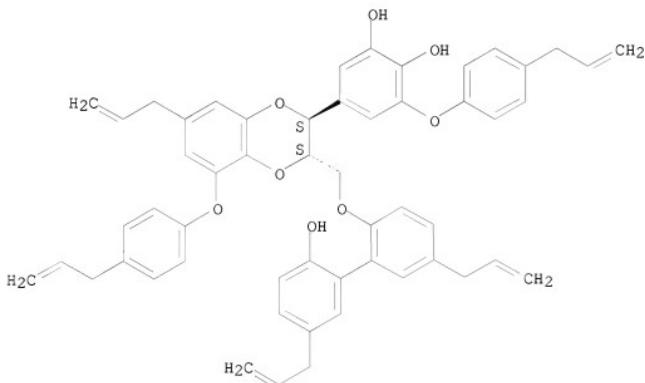
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(effects of constituents from bark of Magnolia obovata on nitric oxide production in lipopolysaccharide-activated macrophages)

RN 147663-91-0 HCAPLUS

CN 1,2-Benzenediol, 5-[(2R,3R)-2,3-dihydro-3-[[[2'-hydroxy-5,5'-di-2-propen-1-yl][1,1'-biphenyl]-2-yl]oxy]methyl]-7-(2-propen-1-yl)-5-[4-(2-propen-1-yl)phenoxy]-1,4-benzodioxin-2-yl]-3-[4-(2-propen-1-yl)phenoxy], rel- (CA INDEX NAME)

Relative stereochemistry.

Currently available stereo shown.



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 26 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:228698 HCAPLUS

DOCUMENT NUMBER: 134:261227

TITLE: Anti-mycobacterium flavonoid and chalcone compound

INVENTOR(S): compositions and methods of preparing and using them
 Lin, Yuh-Meej
 PATENT ASSIGNEE(S): Advanced Life Sciences, Inc., USA
 SOURCE: PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001021164	A2	20010329	WO 2000-US26196	20000922
WO 2001021164	A3	20020110		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6677350	B1	20040113	US 2000-667131	20000921
EP 1217995	A2	20020703	EP 2000-963753	20000922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRIORITY APPLN. INFO.:			US 1999-155519P	P 19990922
			US 2000-667131	A2 20000921
			WO 2000-US26196	W 20000922

OTHER SOURCE(S): MARPAT 134:261227

AB The invention provides compds., compns. and methods for the prevention or treatment of mycobacterium infections. The compds. are naturally occurring and synthetic biflavonoids, flavonoids, chalcones and chalcone-like compds. The compds. were screened for anti-mycobacterial activity. Of the compds. showing anti-mycobacterial activity, eight were identified as particularly potent, exhibiting greater than 90% inhibition of the growth of Mycobacterium tuberculosis at a concentration of 12.5 µg/mL. The actual min. inhibitory concns., defined as the lowest concentration inhibiting 99% of the inoculum, for the preferred compds. ranged from 6.8 to 48.3 µM.

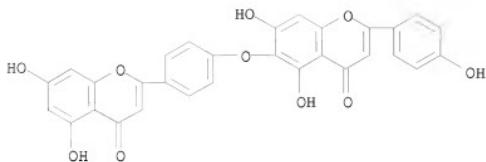
IT 19202-36-9, Hinokiflavone

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(flavonoid and chalcone compound anti-mycobacterium compns., preparation and use)

RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

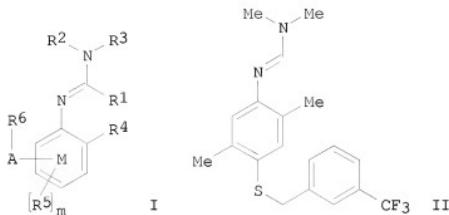


L31 ANSWER 27 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:553541 HCPLUS
 DOCUMENT NUMBER: 133:163952
 TITLE: Preparation of N2-phenylamidines as fungicides
 INVENTOR(S): Charles, Mark David; Franke, Wilfried; Green, David
 Eric; Hough, Thomas Lawley; Mitchell, Dale Robert;
 Simpson, Donald James; Atherall, John Frederick
 PATENT ASSIGNEE(S): Hoechst Schering Agrevo G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 76 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000046184	A1	20000810	WO 2000-GB345	20000204
W: AU, BR, CA, CN, CZ, HU, IL, IN, JP, KR, MX, RU, TR, UA, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2360943	A1	20000810	CA 2000-2360943	20000204
CA 2360943	C	20060418		
EP 1150944	A1	20011107	EP 2000-901791	20000204
EP 1150944	B1	20030820		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
TR 200102237	T2	20011221	TR 2001-2237	20000204
BR 200009314	A	20020213	BR 2000-9314	20000204
HU 2001005098	A2	20020429	HU 2001-5098	20000204
HU 2001005098	A3	20020528		
JP 2002536354	T	20021029	JP 2000-597256	20000204
AT 247629	T	20030915	AT 2000-901791	20000204
AU 768156	B2	20031204	AU 2000-23088	20000204
PT 1150944	T	20031231	PT 2000-901791	20000204
ES 2200816	T3	20040316	ES 2000-901791	20000204
RU 2234504	C2	20040820	RU 2001-124664	20000204
US 6893650	B1	20050517	US 2001-890775	20000204
ZA 2001005845	A	20021016	ZA 2001-5845	20010716
MX 2001PA07923	A	20021011	MX 2001-PA7923	20010803
IN 2001DN00764	A	20070112	IN 2001-DN764	20010827
HK 1043358	A1	20050506	HK 2002-105179	20020712
PRIORITY APPLN. INFO.:			GB 1999-2592	A 19990206
			WO 2000-GB345	W 20000204

OTHER SOURCE(S) :
GI

MARPAT 133:163952

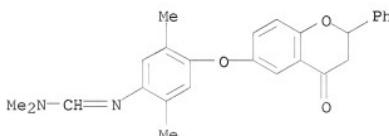


AB The title compds. [I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3 = R1, CN, acyl, etc.; R2 and R3, or R2 and R1, together with their interconnecting atoms may form (un)substituted ring; R4 = alkyl, alkenyl, alkynyl, etc.; m = 0-3; when present R5 = R4; R6 = (un)substituted carbo- or heterocyclyl; A = a direct bond, O, C.tpbond.C, etc.; AR6 and R5 together with benzene ring M form an (un)substituted fused ring system], useful as fungicides, were prepared E.g., a 3-step preparation of the formamidine II which showed moderate to total control against Erysiphe graminis f. sp. Tritici at 500 ppm (w/v) or less, was given.

IT 287940-12-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

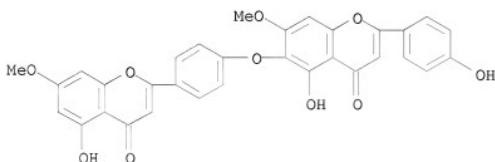
(preparation of N2-phenylamidines as fungicides)

RN 287940-12-9 HCPLUS**CN** Methanimidamide, N'-(4-[(3,4-dihydro-4-oxo-2-phenyl-2H-1-benzopyran-6-yl)oxy]-2,5-dimethylphenyl)-N,N-dimethyl- (CA INDEX NAME)

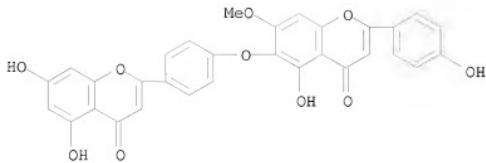
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 28 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN**ACCESSION NUMBER:** 2000:445135 HCPLUS**DOCUMENT NUMBER:** 133:329268**TITLE:** Compounds from *Biota orientalis* leaves inhibit

expression of adhesion molecules induced by
 TNF- α on inflammatory cells
AUTHOR(S): Lee, Hyeong-Kyu; Ahn, Kyung-Seop; Park, Si Hyung; Lee,
 Im Seon; Kim, Jung Hee
CORPORATE SOURCE: Immunomodulator Research Laboratory, Korea Research
 Institute of Bioscience and Biotechnology, Taejon,
 305-600, S. Korea
SOURCE: Recent Advances in Natural Products Research,
 Proceedings of the International Symposium on Recent
 Advances in Natural Products Research, 3rd, Seoul,
 Republic of Korea, Nov. 19, 1999 (1999), 54-62.
 Editor(s): Shin, Kuk Hyun; Kang, Sam Sik; Kim, Yeong
 Shik. Seoul National University, Natural Products
 Research Institute: Seoul, S. Korea.
CODEN: 69ACKL
DOCUMENT TYPE: Conference
LANGUAGE: English
AB A study was conducted to isolate active compds. from the leaves of *Biota orientalis* using the bioactivity-guided separation method. Thirteen compds. (6 flavonoids, 6 diterpenoids and a coumarin) were isolated from the leaves of *Biota orientalis*. Putraflavone, acacetin and 6-methoxy- λ -8(17),13-dien-15,19-dioic acid butenolide showed good activity in the inhibition assay of intercellular cell adhesion mol. 1 (ICAM-1) and vascular cell adhesion mol. 1 (VCAM-1) expression induced by tumor necrosis factor- α on THP-1 cells. In the inhibition assay of cell-cell adhesion, acacetin showed the strongest activity among isolated compds., and demethylpinusolide and putraflavone followed. These results suggest that *biota* leaves are useful for the treatment of acute and chronic inflammation including chronic bronchitis.
IT 20931-35-5 20931-58-2, Isocryptomerin
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (compds. from *Biota orientalis* leaves inhibit expression of adhesion mols. induced by TNF- α on inflammatory cells in relation to inhibition of cell-cell adhesion and inflammation inhibition)
RN 20931-35-5 HCPLUS
CN 4H-1-Benzopyran-4-one, 5-hydroxy-6-[4-(5-hydroxy-7-methoxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



RN 20931-58-2 HCPLUS
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 29 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:706097 HCAPLUS

DOCUMENT NUMBER: 129:310877

ORIGINAL REFERENCE NO.: 129:63297a,63300a

TITLE: Biflavonoids and their derivatives as antiviral agents, alone or in combination with at least one known antiviral agent

INVENTOR(S): Zembower, David E.; Lin, Yuh-Meei; Flavin, Michael T.; Schure, Ralph; Zhao, Geng-Xian

PATENT ASSIGNEE(S): Medichem Research, Inc., USA

SOURCE: PCT Int. Appl., 102 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9846238	A1	19981022	WO 1998-US7649	19980415
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CX, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9871243	A	19981111	AU 1998-71243	19980415
US 6399654	B1	20020604	US 1998-60839	19980415
PRIORITY APPLN. INFO.:				
		US 1997-842625	A2 19970415	
		US 1998-60839	A 19980415	
		US 1995-465P	P 19950623	
		US 1996-668284	A2 19960621	
		WO 1998-US7649	W 19980415	

AB Substantially purified antiviral biflavonoids robustaflavone, hinokiflavone, amentoflavone, agathisflavone, volvensiflavone, morelloflavone, rhusflavanone, succedaneaflavanone, GB-1a, and GB-2a are provided. Antiviral biflavonoid derivs. and salt forms thereof, e.g., robustaflavone tetrasulfate potassium salt, and methods for preparing the same are also disclosed. Pharmaceutical compns. which include the

antiviral biflavanoids, derivs. of salts thereof are also provided alone or in combination with at least one antiviral agent such as 3TC. Also disclosed is an improved method for obtaining substantially pure robustaflavone from plant material. The biflavanoid compds., derivs. or salts thereof of the invention may be used in a method for treating and/or preventing viral infections caused by viral agents such as influenza, e.g., influenza A and B; hepatitis, e.g., hepatitis B; human immunodeficiency virus, e.g., HIV-1; Herpes viruses (HSV-1 and HSV-2); Varicella Zoster virus (VZV); and measles. For instance, semi-synthetic hexa-O-acetate and hexa-O-Me ether derivs. of robustaflavone have been found to be effective in a method for treating or preventing hepatitis B viral infections. Compns. which include these robustaflavone derivs. along with methods for preparing and using the same are also provided. These compns. may be used alone or in combination with at least one antiviral agent such as 3TC.

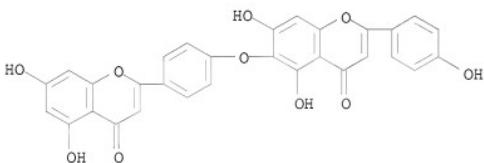
IT 19202-36-9, Hinokiflavone 19202-36-9D, Hinokiflavone, derivs.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(biflavanoids and derivs., alone or in combination with other antiviral agents, for viral infection prevention or treatment, and biflavanoid isolation and preparation)

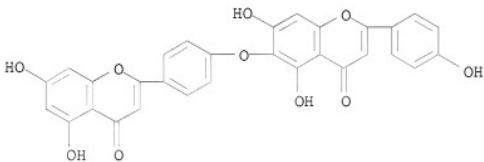
RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 30 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1998:430070 HCPLUS
 DOCUMENT NUMBER: 129:95353
 ORIGINAL REFERENCE NO.: 129:19670h,19671a
 TITLE: Isolation of biflavonoids and preparation of derivatives thereof as antiviral agents
 INVENTOR(S): Lin, Yuh-meei; Flavin, Michael T.; Schure, Ralph; Zembower, David E.; Zhao, Gen-xian
 PATENT ASSIGNEE(S): Medichem Research, Inc., USA
 SOURCE: U.S., 33 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

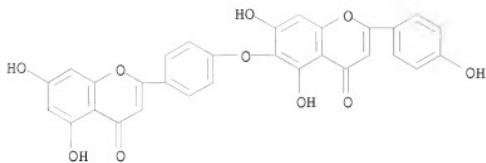
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5773462	A	19980630	US 1996-668284	19960621
US 5948918	A	19990907	US 1998-59913	19980414
US 6399654	B1	20020604	US 1998-60839	19980415
US 20020068757	A1	20020606	US 2001-761909	20010117
PRIORITY APPLN. INFO.:				
		US 1995-465P	P	19950623
		US 1996-668284	A3	19960621
		WO 1996-US10718	W	19960621
		US 1997-842625	B2	19970415
		US 1998-60839	A3	19980415

AB A method for treating an influenza infection in a mammal comprises administering to said mammal an effective therapeutic amount of a substantially purified antiviral biflavonoid, selected from robustaflavone, amentoflavone, or a derivative or salt thereof. Thus, robustaflavone tetrasulfate potassium salt was prepared from robustaflavone (isolated from *Rhus succedanea*) via reaction with tetrabutylammonium hydrogen sulfate in pyridine containing dicyclohexyl carbodiimide followed treatment with K₂CO₃ in MeOH. Robustaflavone tetrasulfate potassium salt was effective against hepatitis B virus (EC₅₀ = 0.4 μ M) and showed 95.5% inhibition of HIV-1 RT at 200 μ g/mL (IC₅₀ = 144.4 μ mL).

IT 19202-36-9, Hinokiflavone
 RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (isolation of biflavonoids and preparation of derivs. thereof as antiviral agents)

RN 19202-36-9 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



REFERENCE COUNT: 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 31 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1997:172486 HCPLUS
 DOCUMENT NUMBER: 126:166466
 ORIGINAL REFERENCE NO.: 126:32053a,32056a
 TITLE: Biflavonoids and derivatives thereof as antiviral agents, isolation thereof, and derivative preparation
 INVENTOR(S): Lin, Yuh-Meei; Flavin, Michael T.; Schure, Ralph; Zembower, David E.; Zhao, Geng-Xian
 PATENT ASSIGNEE(S): Medichem Research, Inc., USA
 SOURCE: PCT Int. Appl., 93 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700679	A1	19970109	WO 1996-US10718	19960621
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
CA 2225341	A1	19970109	CA 1996-2225341	19960621
AU 9662880	A	19970122	AU 1996-62880	19960621
AU 707798	B2	19990722		
EP 833631	A1	19980408	EP 1996-921740	19960621
EP 833631	B1	20021113		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11508264	T	19990721	JP 1996-503972	19960621
EP 1245230	A2	20021002	EP 2002-10287	19960621
EP 1245230	A3	20031126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
AT 227569	T	20021115	AT 1996-921740	19960621
US 5948918	A	19990907	US 1998-59913	19980414
PRIORITY APPLN. INFO.:			US 1995-465P	P 19950623
			EP 1996-921740	A3 19960621
			US 1996-668284	A3 19960621

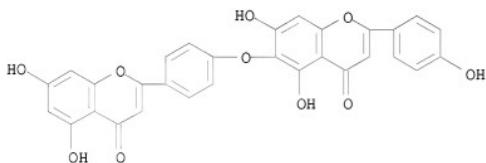
AB Substantially purified antiviral biflavanoids robustaflavone, hinokiflavone, amentoflavone, agathisflavone, volvensflavone, morelloflavone, rhusflavanone, succedaneaflavanone, GB-1a, and GB-2a are provided. Antiviral biflavanoid derivs. and salt forms thereof, e.g., robustaflavone tetrasulfate potassium salt, and methods for preparing the same are also disclosed. Pharmaceutical compns. which include the antiviral biflavanoids, derivs. or salts thereof are also provided. Also disclosed is an improved method for obtaining substantially pure robustaflavone from plant material. The biflavanoid compds., derivs. or salts thereof of the invention may be used in a method for treating and/or preventing viral infections caused by viral agents such as influenza, e.g., influenza A and B; hepatitis, e.g., hepatitis B; human immunodeficiency virus, e.g., HIV-1; Herpes viruses (HSV-1 and HSV-2); Varicella Zoster virus (VZV); and measles.

IT 19202-36-9P, Hinokiflavone

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (biflavanoids and derivs. thereof as antiviral agents, isolation thereof, and derivative preparation)

RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)

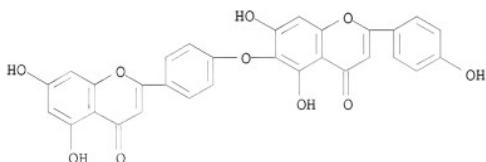


IT 19202-36-9D, Hinokiflavone, derivs.

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (biflavanoids and derivs. thereof as antiviral agents, isolation thereof, and derivative preparation)

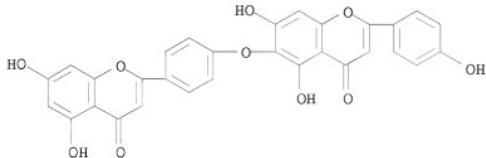
RN 19202-36-9 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 32 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1997:139734 HCAPLUS
 DOCUMENT NUMBER: 126:161990
 ORIGINAL REFERENCE NO.: 126:31241a,31244a
 TITLE: One-package-type hair dye compositions containing polyvalent metal salts and ascorbic acid
 INVENTOR(S): Yoshimoto, Megumi; Yanaba, Shigeru
 PATENT ASSIGNEE(S): Lion Corp, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08337516	A	19961224	JP 1995-169366	19950613
PRIORITY APPLN. INFO.:			JP 1995-169366	19950613
AB	Title compns. contain polyvalent metal salts, ascorbic acid (I), and ligands. The compns. are used for dyeing of gray hair easily and do not damage the hair. A composition containing FeSO ₄ 1.0, I 0.5, Gly 3.0, emodin 1,0, polyoxyethylene stearyl ether 0.4, coco fatty acid diethanolamide 0.3, Me p-hydroxybenzoate 0.1, EtOH 20, and H ₂ O to 100 weight% was mixed with 7 weight% (of the composition) LPG to give a hair dye spray, which showed good hair-dyeing effect and storage stability, and no metal odor.			
IT	19202-36-9, Hinokiflavone RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (one-package-type hair dyes containing polyvalent metal salts, ascorbic acid, and ligands)			
RN	19202-36-9 HCAPLUS			
CN	4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)			



L31 ANSWER 33 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1997:113419 HCAPLUS
 DOCUMENT NUMBER: 126:122303
 ORIGINAL REFERENCE NO.: 126:23547a,23550a
 TITLE: Hair growth promoting compositions containing isoflavanoid derivatives

INVENTOR(S): Kung, Patrick C.; Li, Ze Zeng
 PATENT ASSIGNEE(S): Kung, Patrick, C., USA
 SOURCE: PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639832	A1	19961219	WO 1996-US8433	19960603
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IL, IS, JP, KG, KP, KR, LZ, LR, LS, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, UZ, VN, AM, AZ, BY				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5639785	A	19970617	US 1995-484097	19950607
AU 9659704	A	19961230	AU 1996-59704	19960603
PRIORITY APPLN. INFO.:			US 1995-484097	A 19950607
			US 1996-659466	A 19960531
			WO 1996-US8433	W 19960603

OTHER SOURCE(S): MARPAT 126:122303

AB Novel compns. of isoflavanoid derivs. useful for the treatment of male pattern baldness and alopecia areata, promoting the conversion of gray hair to the original pigment in hair follicles, and increasing the blood supply to the brain are disclosed. The invention also relates to methods for treatment of male pattern baldness and alopecia areata, gray hair, and brain circulatory deficiencies. Sodium methoxide 6.48 was added to 50 mL DMF and the mixture was distilled to eliminate alc. then, resulting product was cooled to <20°. Dimethylamino-methoxy sulfuric acid Me ester (preparation given) was added dropwise to the cooled product and the mixture was allowed to react for 5 h. The reaction mixture was distilled to remove dimethylformamide from the mixture followed by addition of water to obtain daidzein (I). A tablet contained I 100, lactose 50, starch 23, microcryst. cellulose 2, dicalcium phosphate 30 mg, surfactants trace, and magnesium trace. The efficacy of tablets (2 tablet 3 times/day) in treatment of hypertensive male bald subject is reported.

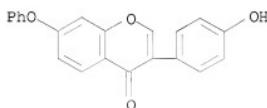
IT 186246-61-7P 186246-66-2P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

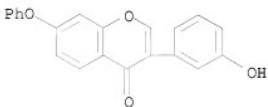
(hair growth promoting compns. containing isoflavanoid derivs.)

RN 186246-61-7 HCPLUS

CN 4H-1-Benzopyran-4-one, 3-(4-hydroxyphenyl)-7-phenoxy- (CA INDEX NAME)



RN 186246-66-2 HCPLUS
 CN 4H-1-Benzopyran-4-one, 3-(3-hydroxyphenyl)-7-phenoxy- (CA INDEX NAME)



L31 ANSWER 34 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:618491 HCPLUS

DOCUMENT NUMBER: 125:292577

ORIGINAL REFERENCE NO.: 125:54439a,54442a

TITLE: Inhibition of phospholipase C γ 1 activity by amentoflavone isolated from Selaginella tamariscina

AUTHOR(S): Lee, Hyun Sun; Oh, Won Keun; Kim, Bo Yeon; Ahn, Soon Cheol; Kang, Dae Ook; Shin, Dong In; Kim, Jinwoong; Mheen, Tae Ick; Ahn, Jong Seog

CORPORATE SOURCE: Korea Research Institute Bioscience Biotechnology, Taejon, 305600, S. Korea

SOURCE: Planta Medica (1996), 62(4), 293-296
 CODEN: PLMEA; ISSN: 0032-0943

PUBLISHER: Thieme

DOCUMENT TYPE: Journal

LANGUAGE: English

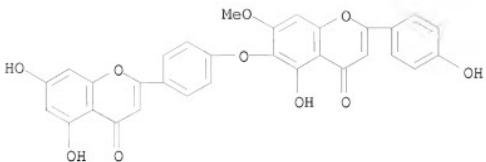
AB Amentoflavone (I) was isolated as an inhibitor of phospholipase C γ 1 (PLC γ 1) and phosphoinositides (PI)-turnover in PLC γ 1 overexpressing NIH3T3 fibroblasts (NIH3T3 γ 1) from Selaginella tamariscina together with other related biflavonoids, isocryptomerin (II) and cryptomerin B (III). Only I inhibited the PLC γ 1 activity with an IC50 of 29 μ M and the formation of total inositol phosphates (IPt) in PDGF-stimulated NIH3T3 γ 1 with an IC50 of 9.2 μ M but did not show inhibitory activity against protein kinase C. II and III did not show any inhibitory activity against PLC γ 1 at the concentration of 150 μ M, and did not inhibit IPt production in PDGF-induced NIH3T3 γ 1 at the concentration of 180 μ M.

IT 20931-58-2, Isocryptomerin 22012-98-2, Cryptomerin B

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
 (phospholipase activity inhibition by amentoflavone from Selaginella tamariscina)

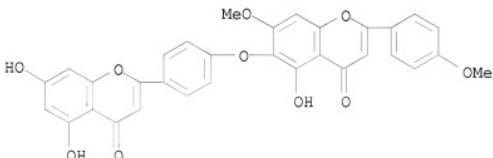
RN 20931-58-2 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



RN 22012-98-2 HCAPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-methoxyphenyl)- (CA INDEX NAME)



L31 ANSWER 35 OF 42 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:368278 HCAPLUS

DOCUMENT NUMBER: 125:75345

ORIGINAL REFERENCE NO.: 125:14055a,14058a

TITLE: 6-Bromoflavone, a high affinity ligand for the central benzodiazepine receptors is a member of a family of active flavonoids

AUTHOR(S): Marder, Mariel; Viola, Haydee; Wasowski, Cristina; Wolfman, Claudia; Waterman, Peter G.; Cassels, Bruce K.; Medina, Jorge H.; Paladini, Alejandro C.

CORPORATE SOURCE: Inst. Quimica Fisicoquimica Biologicas, Facultad Farmacia Bioquimica, Buenos Aires, 1113, Argent.

SOURCE: Biochemical and Biophysical Research Communications (1996), 223(2), 384-389
CODEN: BBRCA9; ISSN: 0006-291X

PUBLISHER: Academic

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 6-Bromoflavone, obtained by bromination of flavone, binds to central benzodiazepine receptors with a $K_i = 70$ nM and has a clear anxiolytic activity in mice, at 0.5 mg/kg, i.p. A survey of the structure/affinity relation for those receptors in a series of natural and synthetic flavonoids is presented.

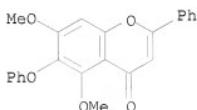
IT 178693-39-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(structure activity relations of a series of natural and synthetic

flavonoids as high affinity ligands for central benzodiazepine receptors)

RN 178693-39-5 HCPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dimethoxy-6-phenoxy-2-phenyl- (CA INDEX NAME)



L31 ANSWER 36 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:133088 HCPLUS

DOCUMENT NUMBER: 124:219862

ORIGINAL REFERENCE NO.: 124:40349a,40352a

TITLE: Ability of Different Flavonoids To Inhibit the Procoagulant Activity of Adherent Human Monocytes

AUTHOR(S): Lale, A.; Herbert, J. M.; Augereau, J. M.; Billon, M.; Leconte, M.; Gleye, J.

CORPORATE SOURCE: Sanofi Recherche, Toulouse, 31036, Fr.

SOURCE: Journal of Natural Products (1996), 59(3), 273-6

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Sixty-five natural flavonoids of various chemical classes were screened for their ability to inhibit the procoagulant activity of adherent human monocytes stimulated by endotoxin and interleukin-1 β in vitro. Eighteen of these compds. inhibited the interleukin-1 β -induced expression of tissue factor on human monocytes, but the most active compound was a biflavonoid, hinokiflavone.

IT 19202-36-9, Hinokiflavone

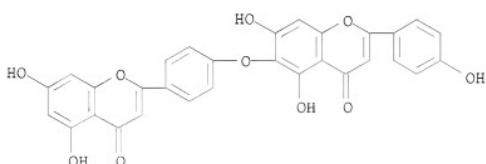
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(inhibition of procoagulant activity of adherent human monocytes by flavonoids)

RN 19202-36-9 HCPLUS

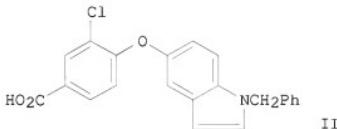
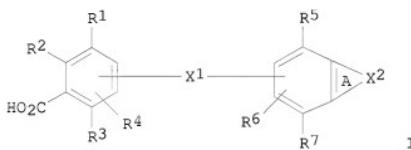
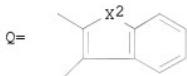
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 37 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:909403 HCPLUS
 DOCUMENT NUMBER: 123:313757
 ORIGINAL REFERENCE NO.: 123:56239a,56242a
 TITLE: Preparation of indolylloxybenzoic acids and analogs as
 testosterone 5 α -reductase inhibitors
 INVENTOR(S): Igarashi, Susumu; Isaka, Masahiko; Inami, Hiroshi;
 Hara, Hiroshi; Kamitoku, Hiroshi
 PATENT ASSIGNEE(S): Yamanouchi Pharma Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, '70 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

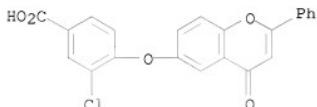
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07145147	A	19950606	JP 1993-296321	19931126
PRIORITY APPLN. INFO.:			JP 1993-296321	19931126

OTHER SOURCE(S): MARPAT 123:313757
 GI



AB The title compds. I [R1 - R7 = H, halo, etc.; X1 = O, S; X2 = O, etc.; ring A = Q, etc.], useful as testosterone 5 α -reductase inhibitors (no data), are prepared. The title compound II and 83 other title compds. were prepared

IT 161460-10-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of indolyloxybenzoic acids and analogs as testosterone 5 α -reductase inhibitors)
 RN 161460-10-2 HCPLUS
 CN Benzoic acid, 3-chloro-4-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



L31 ANSWER 38 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:662286 HCPLUS

DOCUMENT NUMBER: 123:74451

ORIGINAL REFERENCE NO.: 123:12951a,12954a

TITLE: Suppression of mouse lymphocyte proliferation in vitro by naturally-occurring biflavonoids

AUTHOR(S): Lee, S. J.; Choi, J. H.; Son, K. H.; Chang, H. W.; Kang, S. S.; Kim, P.

CORPORATE SOURCE: Coll. Pharmacy, Kangwon Natl. Univ., Chuncheon, 200-701, S. Korea

SOURCE: Life Sciences (1995), 57(6), 551-8
 CODEN: LIFSAK; ISSN: 0024-3205

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In a continuing effort to investigate biol. activities of flavonoids, nine biflavonoids, isolated from three plant sources were evaluated for their suppressive effects on mouse lymphocyte proliferation. The biflavonoids tested were amentoflavone, bilobetin, ginkgetin, isoginkgetin, sciadopitysin, ochnaflavone, 4'-O-methylochnaflavone, cryptomerin B and isocryptomerin. At 10 μ M, several biflavonoids such as ginkgetin, isoginkgetin, ochnaflavone, cryptomerin B and isocryptomerin showed the suppressive activity against lymphocyte proliferation induced by Con A or LPS. Apigenin (flavone) and quercetin (flavonol) were suppressive against Con A-induced lymphocyte proliferation, but not against LPS-induced lymphocyte proliferation at the same concentration range. Biflavonoids were found to be irreversible inhibitors of lymphocyte proliferation. This is the first report describing the suppressive effects of naturally-occurring biflavonoids against lymphocyte proliferation.

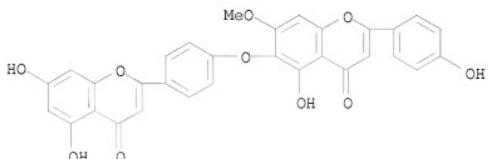
IT 20931-58-2, Isocryptomerin 22012-98-2, Cryptomerin B

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(suppression of lymphocyte proliferation by naturally-occurring biflavonoids)

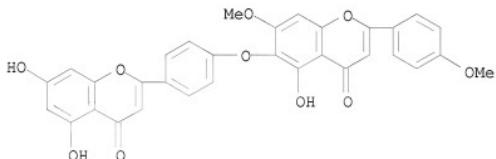
RN 20931-58-2 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)



RN 22012-98-2 HCPLUS

CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5-hydroxy-7-methoxy-2-(4-methoxyphenyl)- (CA INDEX NAME)



L31 ANSWER 39 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:544919 HCPLUS

DOCUMENT NUMBER: 123:289

ORIGINAL REFERENCE NO.: 123:55a,58a

TITLE: Comparative antilipoperoxidant, antinecrotic and scavenging properties of terpenes and biflavones from Ginkgo and some flavonoids

AUTHOR(S): Joyeux, M.; Lobstein, A.; Anton, R.; Mortier, F.

CORPORATE SOURCE: CEREPHA, Metz, F-57000, Fr.

SOURCE: Planta Medica (1995), 61(2), 126-9

CODEN: PLMEA; ISSN: 0032-0943

PUBLISHER: Thieme

DOCUMENT TYPE: Journal

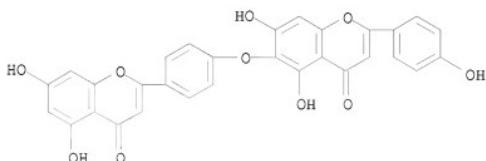
LANGUAGE: English

AB Ginkgo biloba extract is known to be efficient in diseases associated with free radical generation. This study compares the *in vitro* effect of some constituents of Ginkgo against lipid peroxidation and cell necrosis of isolated rat hepatocytes, and against superoxide anion which is generally implicated in cell damages.

IT 19202-36-9, Hinokiflavone

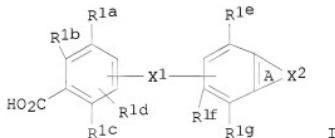
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(comparative antilipoperoxidant and antinecrotic and scavenging

properties of terpenes and biflavones from Ginkgo and some flavonoids)
 RN 19202-36-9 HCPLUS
 CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)



L31 ANSWER 40 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:408500 HCPLUS
 DOCUMENT NUMBER: 122:160472
 ORIGINAL REFERENCE NO.: 122:29573a,29576a
 TITLE: Preparation of pyran moiety-containing benzoic acid analogs as testosterone 5 α -reductase inhibitors
 INVENTOR(S): Hara, Hiroshi; Igarashi, Susumu; Isaka, Masahiko;
 Nagaoka, Hitoshi; Kamitoku, Hiroshi
 PATENT ASSIGNEE(S): Yamanouchi Pharma Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 27 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06312976	A	19941108	JP 1993-124963	19930428
PRIORITY APPLN. INFO.:			JP 1993-124963	19930428
OTHER SOURCE(S): GI		CASREACT 122:160472; MARPAT 122:160472		



AB The title compds. [I; R_{1a}-R_{1g} = H, alkyl, alkenyl, alkynyl, halo, etc.; X₁ = O, S; X₂ = O, S, (un)substituted imino], testosterone 5 α -reductase inhibitors (no data) and therefore useful for treatment of prostate

enlargement, are prepared 5-(Benzylxyloxy)indole in DMSO was reacted with benzyl bromide at room temperature for 3 h to give 1-benzyl-5-(benzyloxy)-1H-indole, which was hydrogenolyzed to give 1-benzyl-5-hydroxy-1H-indole, which was reacted with 3-chloro-4-fluorobenzonitrile to give 3-chloro-4-[(1-benzyl-1H-indol-5-yl)oxy]benzonitrile, which was refluxed with KOH for 3 h to give the title compound 3-chloro-4-[(1-benzyl-1H-indol-5-yl)oxy]benzoic acid.

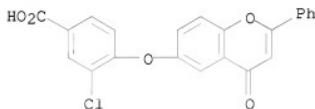
IT 161460-10-2P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyran moiety-containing benzoic acid analogs as testosterone 5 α -reductase inhibitors)

RN 161460-10-2 HCPLUS

CN Benzoic acid, 3-chloro-4-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



L31 ANSWER 41 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:450555 HCPLUS

DOCUMENT NUMBER: 119:50555

ORIGINAL REFERENCE NO.: 119:9189a,9192a

TITLE: Electrically conductive polyoxyphenylene compositions for heat-resistant IC trays

INVENTOR(S): Nakazawa, Keiichi; Ueda, Sumio

PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

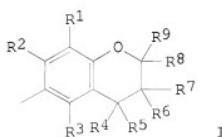
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04288363	A	19921013	JP 1991-77258	19910318
JP 3073779	B2	20000807	JP 1991-77258	19910318

PRIORITY APPLN. INFO.:

GI



AB The title compns. with good moldability and no delamination comprise (a) polyoxyphenylenes containing >0.01% terminal group I (R1-9 = H, halo, hydrocarbyl; R6-R7 and/or R8-R9 may form spiro-ring) 10-99, (b) a 50-90:10-50 copolymer (II) of a vinyl aromatic compound block and an olefin block (with unsatn. <20%) 1-90, (c) a 20-50:50-80 II 0-10%, and (d) 3-40 phr elec. conductive carbon black. Thus, 2,6-dimethylxylenol was polymerized in the presence of dibutylamine followed by reacting with styrene to give a polyoxyphenylene with I (R1 = Me, R2-8 = H, R9 = Ph), which was blended with a styrene-olefin block copolymer and Ketjen Black EC and molded to give elec. conductive moldings with good heat resistance.

IT 148828-31-3 148828-32-4 148828-33-5

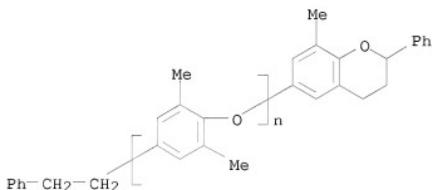
148828-34-6

RL: USES (Uses)

(blocks with styrene block copolymers and carbon black, for elec. conductive IC trays)

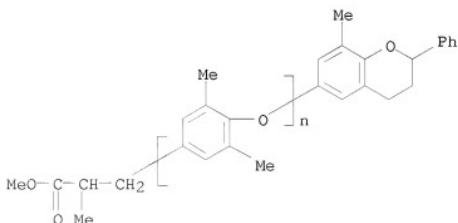
RN 148828-31-3 HCPLUS

CN Poly[oxy(2,6-dimethyl-1,4-phenylene)], α -(3,4-dihydro-8-methyl-2-phenyl-2H-1-benzopyran-6-yl)- ω -(2-phenylethyl)- (9CI) (CA INDEX NAME)



RN 148828-32-4 HCPLUS

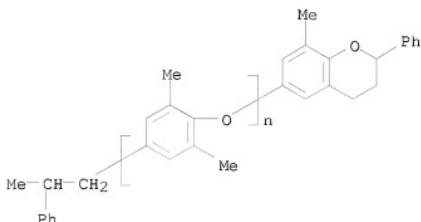
CN Poly[oxy(2,6-dimethyl-1,4-phenylene)], α -(3,4-dihydro-8-methyl-2-phenyl-2H-1-benzopyran-6-yl)- ω -(3-methoxy-2-methyl-3-oxopropyl)- (9CI) (CA INDEX NAME)



RN 148828-33-5 HCPLUS

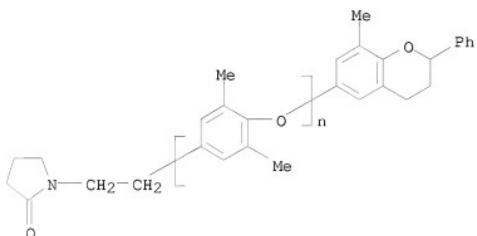
10541677

CN Poly[oxy(2,6-dimethyl-1,4-phenylene)], α -(3,4-dihydro-8-methyl-2-phenyl-2H-1-benzopyran-6-yl)- ω -(2-phenylpropyl)- (9CI) (CA INDEX NAME)



RN 148828-34-6 HCPLUS

CN Poly[oxy(2,6-dimethyl-1,4-phenylene)], α -(3,4-dihydro-8-methyl-2-phenyl-2H-1-benzopyran-6-yl)- ω -[2-(2-oxo-1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)



L31 ANSWER 42 OF 42 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:614389 HCPLUS

DOCUMENT NUMBER: 111:214389

ORIGINAL REFERENCE NO.: 111:35557a,35560a

TITLE: Preparation and formulation of 7-methanesulfonylamino-6-phenoxy-4H-1-benzopyran-4-ones and analogs as antiinflammatory agents

INVENTOR(S): Takano, Shuntaro; Yoshida, Chosaku; Inaba, Takihiro; Tanaka, Keiichi; Takeno, Ryuko; Nagaki, Hideyoshi; Shimotori, Tomoya; Makino, Shinji

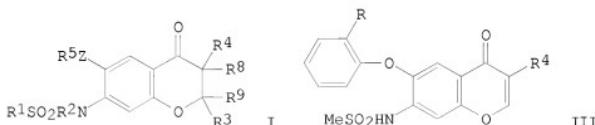
PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan
SOURCE: Ger. Offen., 142 pp.

DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3834204	A1	19890420	DE 1988-3834204	19881007
DE 3834204	C2	19920423		
JP 02049778	A	19900220	JP 1988-250811	19881006
JP 07053725	B	19950607		
FI 8804626	A	19890409	FI 1988-4626	19881007
FI 98460	B	19970314		
FI 98460	C	19970625		
SE 8803570	A	19890409	SE 1988-3570	19881007
SE 468595	B	19930215		
SE 468595	C	19930617		
AU 8823489	A	19890413	AU 1988-23489	19881007
AU 605363	B2	19910110		
FR 2621585	A1	19890414	FR 1988-13205	19881007
FR 2621585	B1	19940128		
NL 8802464	A	19890501	NL 1988-2464	19881007
NL 194914	B	20030303		
NL 194914	C	20030704		
GB 2210879	A	19890621	GB 1988-23567	19881007
GB 2210879	B	19910918		
ES 2013801	A6	19900601	ES 1988-3062	19881007
US 4954518	A	19900904	US 1988-255121	19881007
BE 1002226	A5	19901023	BE 1988-1158	19881007
CH 679397	A5	19920214	CH 1988-3763	19881007
CA 1320959	C	19930803	CA 1988-579624	19881007
AT 8802495	A	19930615	AT 1988-2495	19881010
AT 397088	B	19940125		
ES 2017836	A6	19910301	ES 1989-3464	19891013
ES 2017837	A6	19910301	ES 1989-3466	19891013
ES 2017838	A6	19910301	ES 1989-3467	19891013
ES 2017839	A6	19910301	ES 1989-3468	19891013
ES 2018111	A6	19910316	ES 1989-3463	19891013
ES 2018112	A6	19910316	ES 1989-3465	19891013
ES 2018113	A6	19910316	ES 1989-3469	19891013
JP 07267943	A	19951017	JP 1995-2492	19950111
PRIORITY APPN. INFO.:				
JP 1987-254251				
JP 1988-119990				
JP 1988-250811				

OTHER SOURCE(S): MARPAT 111:214389
GI



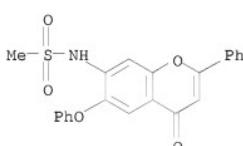
AB The title compds. [I; R1 = (halo)alkyl, alkenyl, aryl; R2 = H, alkyl, acyl; R3 = H, halo, cyano, N3, CHO, CO2H, OH, alkoxy carbonyl, (un)substituted alkyl, alkoxy, PhO, cycloalkyl, CONH2, NH2, Ph; R4 = H, NO2, cyano, CO2H, acyl, OH, alkoxy carbonyl, (un)substituted alkyl, alkoxy, alkylthio, PhS, alkenyl, alkynyl, SO2NH2, alkylsulfinyl, alkylsulfonyl, amidino, Ph, heterocyclyl, NR6R7, CONR6R7'; R5 = (un)substituted Ph, thiaryl, furyl, pyridyl; R6 = H, OH, cyano, alkoxy carbonyl, (un)substituted alkyl, cycloalkyl, Ph, NH2, acyl, carbamoyl, etc.; R7 = H, (un)substituted alkyl, alkoxy, Ph, cycloalkyl; NR6R7 = heterocyclyl; R7, R8 = H; R/R8 = bond; Z = O, S, NH] were prepared I are outstanding antiinflammatory agents and show essentially no ulcerative effect, and are also useful as antipyretics. 3,4-(MeSO2NH)(PhO)C6H3OH (preparation given) was refluxed 30 min with ClCH2CH2CO2H in aqueous NaOH to give 3,4-(MeSO2NH)(PhO)C6H3OCH2CH2CO2H which was stirred 1.5 h at 65-70° with PPA to give I (R1 = Me, R2 = R3 = R4 = R8 = R9 = H, R5 = Ph, Z = O) (II). The latter was brominated to II (R4 = Br), which was stirred 1 h at 70-75° with NaN3 in DMF and conversion of the resulting azide into an amine to give benzopyranone III (R = H, R4 = NH2). The latter was stirred 1 h in CH2Cl2 with a mixture of HCO2H and Ac2O which had stirred 1.5 h at 40-45° to give III (R = H, R4 = NHCHO). III (R = F, R4 = NHCHO) (IV) gave ≥40% inhibition of carrageenin-induced paw edema in rats receiving up to 10 mg/kg orally. Capsules were prepared each containing

IV 50, lactose 114.5, starch 20, hydroxypropylcellulose 2, silica 1.5, ECG 505 10, and Mg stearate 2 mg.

IT 123662-65-7P 123663-35-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as antiinflammatory agent)

RN 123662-65-7 HCPLUS

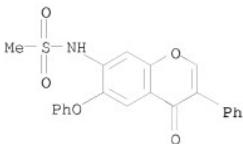
CN Methanesulfonamide, N-(4-oxo-6-phenoxy-2-phenyl-4H-1-benzopyran-7-yl)-
(CA INDEX NAME)



RN 123663-35-4 HCPLUS

CN Methanesulfonamide, N-(4-oxo-6-phenoxy-3-phenyl-4H-1-benzopyran-7-yl)-
(CA INDEX NAME)

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=> file caold		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	253.25	1009.19
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-35.20	-38.40

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database clusters.

- . November 22, 2008 - removed from database clusters
- . December 31, 2008 - removed from SIN

Content previously available only in CAOLD is now available in CA/CAplus. To learn more about the options available for transferring saved search queries and answer sets to CA/CAplus, contact your STN Service Center.

=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

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FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008
L1 STRUCTURE uploaded
L2 0 S L1
L3 STRUCTURE uploaded
L4 1 S L3
L5 STRUCTURE uploaded
L6 0 S L5
L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10 STRUCTURE uploaded
L11 0 S L10
L12 1 S L10 FULL
L13 1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008
L14 1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008
L15 0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
L16 STRUCTURE uploaded
L17 14 S L16
L18 232 S L16 FULL

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L19 2 S L18
L20 2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008
L21 0 S L18

FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008
L22 STRUCTURE uploaded
L23 0 S L22
L24 178 S L22 FULL

FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008
L25 0 S L24 AND OTSOMAA, L?/AU
L26 1 S L24 AND KOSKELAINEN, T?/AU
L27 232 S L24
L28 1 S L27 AND OTSOMAA, L?/AU
L29 43 S L24/USES
L30 1 S L29 AND OTSOMAA, L?/AU
L31 42 S L29 NOT L30
L32 1 S L31 AND KOSKELAINEN, T?/AU
L33 0 S L31 AND KARJALAINEN, A?/AU
L34 0 S L31 AND RASKU, S?/AU

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L35 0 S L31 AND POLLESELLO, P?/AU
L36 0 S L31 AND LEVIJOKI, J?/AU

FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008

=> s 124
L37 14 L24

=> d 137, all, 1-14

L37 ANSWER 1 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA64:16278c CAOLD
TI electron-microscopic study of the action of pepsin and ribonuclease on the
meristematic cells of radishes and squash
AU Thomas, Pierre
IT 521-50-6 1617-53-4

L37 ANSWER 2 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA64:11158c CAOLD
TI synthesis of hinokiflavone pentamethyl ether
AU Krishnan, S. K.; Murti, V. V. S.; Seshadri, T. R.
IT 1919-74-0

L37 ANSWER 3 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA63:9908b CAOLD
TI formation of flavones by thermal condensation of monosubstituted
monophenols and ethyl 3,4,5-trimethoxybenzoylacetate
AU Vialard-Goudou, Andre; Blanchecote, N.
IT 3044-54-0 3044-55-1 3044-56-2 3044-57-3 3044-58-4
3044-59-5

L37 ANSWER 4 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA62:5248b CAOLD
TI reaction of flavone derivs. with Sr - (I) precipitating reaction of flavone
derivs. with Sr
AU Iritani, Nobuhiko; Takino, Y.; Nakano, T.; Kazama, S.
IT 1244-78-6 1245-15-4 1247-97-8 1974-08-9 2068-02-2
2726-83-2 31326-82-6 97979-14-1 98493-60-8

L37 ANSWER 5 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA62:5247g CAOLD
TI naturally occurring hinokiflavone methyl ethers
AU Kawano, Nobusuke; Miura, H.; Waiss, A. C., Jr.
IT 521-50-6 1230-19-9 1262-87-9 1447-85-4
1919-74-0 22012-97-1 31326-81-5

L37 ANSWER 6 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA60:14462f CAOLD
TI flavans and related compds. - (I) hydroxyflavans
AU Rao, C. Bheemasaikara; Venkateswarlu, V.
IT 26081-90-3 54560-32-6 93878-19-4 94549-43-6 95020-88-5
95431-54-2 95486-82-1 95560-47-7 95625-98-2 95697-57-7
96669-22-6 96671-80-6 98220-95-2 98637-74-2 102185-89-7

L37 ANSWER 7 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA55:10425d CAOLD

10541677

TI constituents of the plants of Coniferae and allied orders - (XLVI)
isolation of hinokiflavone from the leaves of *Cryptomeria japonica*
AU Kawano, Nobusuke
IT 19202-36-9 19202-39-2 19825-55-9

L37 ANSWER 8 OF 14 CAOLD COPYRIGHT 2008 ACS on STN

AN CA54:246981 CAOLD

TI constituents of plants of Coniferae and allied orders - (XL-XLI) structure
of hinokiflavone, a flavonoid from the leaves of *Chamaecyparis obtusa* (4)
degradation of hinokiflavone pentamethyl ether in ethanolic KOH solution and
the structures of substance Y and Z, (5) in methanolic Ba(OH)2 solution

AU Fukui, Yoshio

IT 90-24-4 521-50-6 717-14-6 854-04-6
19202-36-9 19202-39-2 51758-31-7 99076-32-1
100622-10-4 101585-43-7 101595-58-8 101597-97-1 101597-99-3
101790-81-2 101790-82-3 103153-99-7 103155-88-0 103649-83-8
108170-07-6 109560-30-7 113863-14-2 122725-13-7

L37 ANSWER 9 OF 14 CAOLD COPYRIGHT 2008 ACS on STN

AN CA54:24698d CAOLD

TI constituents of plants of Coniferae and allied orders - (XXXIX) structure
of hinokiflavone, a flavonoid from the leaves of *Chamaecyparis obtusa* (3)
structure of substance X and oxoflavone

AU Kawano, Nobusuke; Fukui, Y.

IT 621-23-8 19202-36-9 101169-71-5 102948-15-2 108170-07-6
114255-62-8 114398-38-8 115830-14-3 116056-51-0 118953-23-4

L37 ANSWER 10 OF 14 CAOLD COPYRIGHT 2008 ACS on STN

AN CA54:24698a CAOLD

TI constituents of the plants of Coniferae and allied orders - (XXXVIII)
structure of hinokiflavone, a flavonoid from the leaves of *Chamaecyparis*
obtusa (2) composition of hinokiflavone and its degradation in KOH solution

AU Kariyone, Tatsuo; Fukui, Y.

IT 19202-36-9 19202-39-2 19825-55-9
124162-05-6 124162-09-0

L37 ANSWER 11 OF 14 CAOLD COPYRIGHT 2008 ACS on STN

AN CA54:17387a CAOLD

TI structure of hinokiflavone, a new type bisflavonoid

AU Fukui, Yoshio; Kawano, N.

IT 90-24-4 521-50-6 1919-74-0 3361-72-6
19202-36-9 100622-10-4 101110-96-7 101169-71-5 101597-97-1
103153-99-7 106592-95-4 108170-07-6 109101-96-4 109442-64-0
112742-08-2 114254-36-3

L37 ANSWER 12 OF 14 CAOLD COPYRIGHT 2008 ACS on STN

AN CA53:3204b CAOLD

TI synthesis of derivs. of carbamic, thiocarbamic, and diothiocarbamic acids

AU Macko, Jozef

IT 3432-25-5 19202-36-9 20784-98-9 20784-99-0 37982-60-8
61670-49-3 99071-72-4 99072-02-3 100135-15-7 102554-57-4
102554-71-2 104510-11-4 109017-42-7

L37 ANSWER 13 OF 14 CAOLD COPYRIGHT 2008 ACS on STN

AN CA53:3203b CAOLD

TI flavonoids of the leaves of Coniferae and allied plants - (I) flavonoid

10541677

from the leaves of *Torreya nucifera*, (II) *Cycas revoluta* and *Cryptomeria japonica*, (III) *Taxus cuspidata* and relation between ginkgetin, kayaflavone, sciadopitysin, and sotetsuflavone, (IV) *Chamaecyparis obtusa*
AU Kariyone, Tatsuo; Sawada, T.
IT 481-45-8 521-34-6 2608-21-1 3778-25-4 3778-26-5
17482-35-8 17482-36-9 19202-36-9 63043-62-9 67882-15-9
107225-53-6 108677-14-1 120297-65-6 122426-01-1 124270-14-0

L37 ANSWER 14 OF 14 CAOLD COPYRIGHT 2008 ACS on STN
AN CA52:18390f CAOLD
TI constituents of the plant of Coniferae and allied orders - (XX) components
of the leaves of *Metasequoia glyptostroboides* (1)
AU Kariyone, Tatsuo; Takahashi, M.; Isoi, K.; Yoshikura, M.
IT 19202-36-9

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.12	1019.31
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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REGISTRY includes numerically searchable data for experimental and
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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 521-50-6/RN

L38 1 521-50-6/RN

=> SET NOTICE 1 DISPLAY

Updated Search

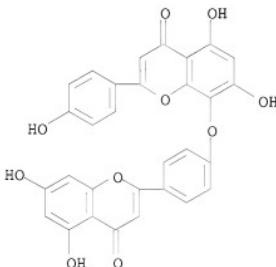
10541677

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L38 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y/N):y

L38 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 521-50-6 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4'',5,5'',7,7''-pentahydroxy-4'',8''-oxydi- (6CI)
CN Flavone, 4'',5,5'',7,7''-pentahydroxy-4'',8-oxydi- (7CI, 8CI)
OTHER NAMES:
CN Lanaroflavone
MF C30 H18 O10
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
DT.CA CAPplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PRP (Properties); USES (Uses); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

Updated Search

10541677

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1021.77
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 1919-74-0/RN

L39 1 1919-74-0/RN

=> SET NOTICE 1 DISPLAY

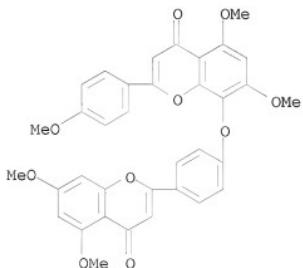
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L39 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

10541677

L39 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1919-74-0 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dimethoxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dimethoxy-2-(4-methoxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4'',5,5'',7,7''-pentamethoxy-4'',8''-oxydi- (6CI)
CN Flavone, 4'',5,5'',7,7''-pentamethoxy-4'',8-oxydi- (7CI, 8CI)
OTHER NAMES:
CN Lanaroflavone pentamethyl ether
CN Penta-O-methyllanaroflavone
DR 11036-51-4
MF C35 H28 O10
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*file contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); PREP (Preparation);
PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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Updated Search

10541677

	ENTRY	SESSION
FULL ESTIMATED COST	2.46	1024.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 3044-59-5/RN

L40 1 3044-59-5/RN

=> SET NOTICE 1 DISPLAY

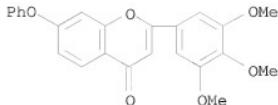
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L40 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L40 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 3044-59-5 REGISTRY
CN Flavone, 3',4',5'-trimethoxy-7-phenoxy- (7CI, 8CI) (CA INDEX NAME)
MF C24 H20 O6
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

10541677



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1026.69
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

10541677

<http://www.cas.org/support/stndgen/stndoc/properties.html>

=> S 31326-82-6/RN

L41 1 31326-82-6/RN

=> SET NOTICE 1 DISPLAY

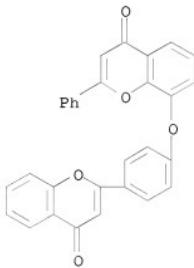
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L41 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L41 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 31326-82-6 REGISTRY
CN Flavone, dihydroxytrimethoxy-4''',8-oxydi- (7CI, 8CI) (CA INDEX NAME)
MF C33 H24 O10
CI IDS
LC STN Files: CA, CAOLD, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

PAGE 1-A



3 (D1-O-Me)

PAGE 2-A

2 (D1-OH)

10541677

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1029.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 521-50-6/RN

L42 1 521-50-6/RN

=> SET NOTICE 1 DISPLAY

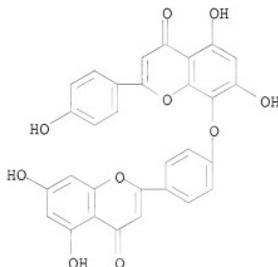
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

10541677

=> D L42 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L42 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 521-50-6 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4'',5,5'',7,7''-pentahydroxy-4',8''-oxydi- (6CI)
CN Flavone, 4'',5,5'',7,7''-pentahydroxy-4'',8-oxydi- (7CI, 8CI)
OTHER NAMES:
CN Lanaroflavone
MF C30 H18 O10
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
DT.CA CAPplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PRP (Properties); USES (Uses); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

10541677

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1031.61
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 122426-01-1/RN

L43 1 122426-01-1/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L43 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L43 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 122426-01-1 REGISTRY
CN Hinokiflavone, tetra-O-methyl- (6CI) (CA INDEX NAME)
MF C34 H26 O10

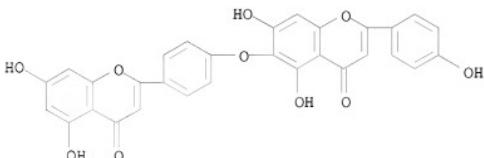
Updated Search

10541677

CI IDS
SR CAOLD
LC STN Files: CA, CAOLD, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

CM 1

CRN 19202-36-9
CMF C30 H18 O10



CM 2

CRN 67-56-1
CMF C H4 O

H3C-OH

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1034.07
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008

Updated Search

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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 122725-13-7/RN

L44 1 122725-13-7/RN

=> SET NOTICE 1 DISPLAY

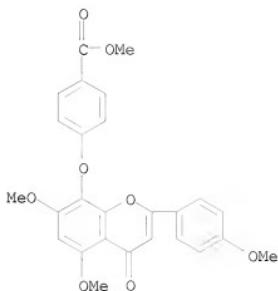
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L44 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L44 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 122725-13-7 REGISTRY
CN Benzoic acid, 4-[5,7-dimethoxy-2-(4-methoxyphenyl)-4-oxo-4H-1-benzopyran-8-yl]oxy-, methyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoic acid, p-[5,7-dimethoxy-2-(p-methoxyphenyl)-4-oxo-4H-1-benzopyran-8-yloxy]-, methyl ester (6CI)
MF C26 H22 O8
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); NORL (No role in record)

10541677



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1036.53
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

10541677

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 112742-08-2/RN

L45 1 112742-08-2/RN

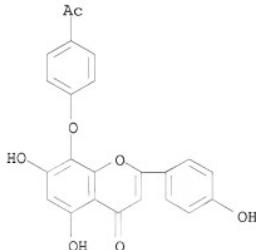
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L45 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L45 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 112742-08-2 REGISTRY
CN Flavone, 8-(p-acetylphenoxy)-4',5,7-trihydroxy- (6CI) (CA INDEX NAME)
MF C23 H16 O7
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10541677

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1038.99
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
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DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 521-50-6/RN

L46 1 521-50-6/RN

=> SET NOTICE 1 DISPLAY

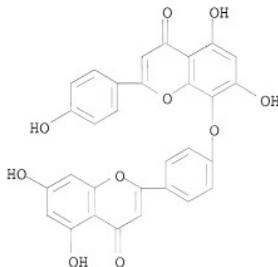
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

10541677

=> D L46 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/?y:

L46 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 521-50-6 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-hydroxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4'',5,5'',7,7''-pentahydroxy-4'',8''-oxydi- (6CI)
CN Flavone, 4'',5,5'',7,7''-pentahydroxy-4''',8-oxydi- (7CI, 8CI)
OTHER NAMES:
CN Lanaroflavone
MF C30 H18 O10
LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PRP (Properties); USES (Uses); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

Updated Search

10541677

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1041.45
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 1919-74-0/RN

L47 1 1919-74-0/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L47 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L47 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1919-74-0 REGISTRY
CN 4H-1-Benzopyran-4-one, 8-[4-(5,7-dimethoxy-4-oxo-4H-1-benzopyran-2-

10541677

yl)phenoxy]-5,7-dimethoxy-2-(4-methoxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN Flavone, 4'',5,5'',7,7''-pentamethoxy-4',8''-oxydi- (6CI)

CN Flavone, 4',5,5'',7,7''-pentamethoxy-4'',8-oxydi- (7CI, 8CI)

OTHER NAMES:

CN Lanaroflavone pentamethyl ether

CN Penta-O-methyllanaroflavone

DR 11036-51-4

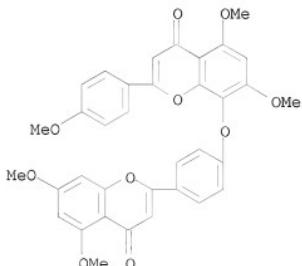
MF C35 H28 O10

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: ANST (Analytical study); PREP (Preparation);
PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)

17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

FULL ESTIMATED COST

ENTRY

2.46

TOTAL

SESSION

1043.91

Updated Search

10541677

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 122426-01-1/RN

L48 1 122426-01-1/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L48 SQIDE 1-

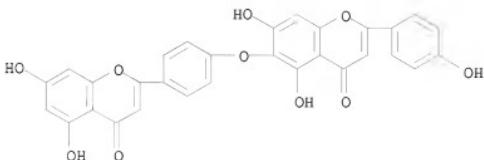
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L48 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 122426-01-1 REGISTRY
CN Hinokiflavone, tetra-O-methyl- (6CI) (CA INDEX NAME)
MF C34 H26 O10
CI IDS
SR CAOLD
LC STN Files: CA, CAOLD, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

CM 1

10541677

CRN 19202-36-9
CMF C30 H18 O10



CM 2

CRN 67-56-1
CMF C H4 O

H₃C-OH

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1046.37
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 18:00:20 ON 05 SEP 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

Updated Search

10541677

DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 22012-97-1/RN

L49 1 22012-97-1/RN

=> SET NOTICE 1 DISPLAY

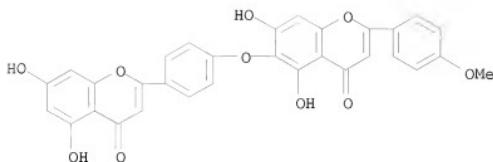
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L49 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L49 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 22012-97-1 REGISTRY
CN 4H-1-Benzopyran-4-one, 6-[4-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)phenoxy]-5,7-dihydroxy-2-(4-methoxyphenyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Flavone, 4'-methoxy-4'',6-oxybis[5,7-dihydroxy- (8CI)
CN Flavone, 4'-methoxy-4'',8-oxybis[5,7-dihydroxy- (7CI)
OTHER NAMES:
CN Cryptomerin A
DR 1262-87-9
MF C31 H20 O10
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, NAPRALERT
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PRP (Properties); RACT (Reactant or reagent); NORL (No role in record)

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.46	1048.83
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of

10541677

experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 114398-38-8/RN

L50 1 114398-38-8/RN

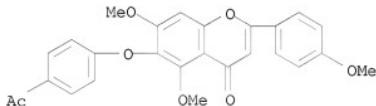
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L50 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L50 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 114398-38-8 REGISTRY
CN Flavone, 6-(p-acetylphenoxy)-4',5,7-trimethoxy- (6CI) (CA INDEX NAME)
MF C26 H22 O7
SR CAOLD
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

10541677

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.38	1052.21
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 31326-81-5/RN

L51 1 31326-81-5/RN

=> SET NOTICE 1 DISPLAY

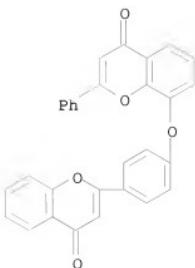
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L51 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L51 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 31326-81-5 REGISTRY
CN Flavone, trihydroxydimethoxy-4'',8-oxydi- (7CI, 8CI) (CA INDEX NAME)
MF C32 H22 O10
CI IDS
LC STN Files: CA, CAOLD, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

PAGE 1-A



2 (D1-O-Me)

PAGE 2-A

3 (D1-OH)

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
 SET COMMAND COMPLETED

=>

=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008
 L1 STRUCTURE uploaded
 L2 0 S L1
 L3 STRUCTURE uploaded
 L4 1 S L3
 L5 STRUCTURE uploaded
 L6 0 S L5
 L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008

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L8 1 S L7
FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
L9 0 S L7
FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10 STRUCTURE uploaded
L11 0 S L10
L12 1 S L10 FULL
L13 1 S L12 NOT L7
FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008
L14 1 S L13
FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008
L15 0 S L13
FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
L16 STRUCTURE uploaded
L17 14 S L16
L18 232 S L16 FULL
FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008
L19 2 S L18
L20 2 S L19 AND OTSOMAA, L?/AU
FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008
L21 0 S L18
FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008
L22 STRUCTURE uploaded
L23 0 S L22
L24 178 S L22 FULL
FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008
L25 0 S L24 AND OTSOMAAA, L?/AU
L26 1 S L24 AND KOSKELAINEN, T?/AU
L27 232 S L24
L28 1 S L27 AND OTSOMAA, L?/AU
L29 43 S L24/USES
L30 1 S L29 AND OTSOMAA, L?/AU
L31 42 S L29 NOT L30
L32 0 S L31 AND KOSKELAINEN, T?/AU
L33 0 S L31 AND KARJALAINEN, A?/AU
L34 0 S L31 AND RASKU, S?/AU
L35 0 S L31 AND POLLESELLO, P?/AU
L36 0 S L31 AND LEVIJOKI, J?/AU
FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008
L37 14 S L24
FILE 'REGISTRY' ENTERED AT 17:56:36 ON 05 SEP 2008
L38 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

10541677

FILE 'REGISTRY' ENTERED AT 17:56:56 ON 05 SEP 2008
L39 1 S 1919-74-0/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008
L40 1 S 3044-59-5/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008
L41 1 S 31326-82-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008
L42 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008
L43 1 S 122426-01-1/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008
L44 1 S 122725-13-7/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008
L45 1 S 112742-08-2/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
L46 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
L47 1 S 1919-74-0/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
L48 1 S 122426-01-1/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:00:20 ON 05 SEP 2008
L49 1 S 22012-97-1/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008

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L50 1 S 114398-38-8/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008
L51 1 S 31326-81-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

```

=> file caold
COST IN U.S. DOLLARS                               SINCE FILE      TOTAL
                                                    ENTRY        SESSION
FULL ESTIMATED COST                           2.46          1054.67

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                    ENTRY        SESSION
CA SUBSCRIBER PRICE                         0.00          -38.40

```

FILE 'CAOLD' ENTERED AT 18:03:02 ON 05 SEP 2008
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database clusters.

- November 22, 2008 - removed from database clusters
 - December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/CAplus. To learn more about the options available for transferring saved search queries and answer sets to CA/CAplus, contact your STN Service Center.

=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

L1 FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008
STRUCTURE uploaded

10541677

L2 0 S L1
L3 STRUCTURE UPLOADED
L4 1 S L3
L5 STRUCTURE UPLOADED
L6 0 S L5
L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10 STRUCTURE UPLOADED
L11 0 S L10
L12 1 S L10 FULL
L13 1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008
L14 1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008
L15 0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
L16 STRUCTURE UPLOADED
L17 14 S L16
L18 232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008
L19 2 S L18
L20 2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008
L21 0 S L18

FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008
L22 STRUCTURE UPLOADED
L23 0 S L22
L24 178 S L22 FULL

FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008
L25 0 S L24 AND OTSOMAA, L?/AU
L26 1 S L24 AND KOSKELAINEN, T?/AU
L27 232 S L24
L28 1 S L27 AND OTSOMAA, L?/AU
L29 43 S L24/USES
L30 1 S L29 AND OTSOMAA, L?/AU
L31 42 S L29 NOT L30
L32 0 S L31 AND KOSKELAINEN, T?/AU
L33 0 S L31 AND KARJALAINEN, A?/AU
L34 0 S L31 AND RASKU, S?/AU
L35 0 S L31 AND POLLESELLO, P?/AU
L36 0 S L31 AND LEVIJOKI, J?/AU

10541677

FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008
L37 14 S L24

FILE 'REGISTRY' ENTERED AT 17:56:36 ON 05 SEP 2008
L38 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:56:56 ON 05 SEP 2008
L39 1 S 1919-74-0/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008
L40 1 S 3044-59-5/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008
L41 1 S 31326-82-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008
L42 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008
L43 1 S 122426-01-1/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008
L44 1 S 122725-13-7/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008
L45 1 S 112742-08-2/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
L46 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
L47 1 S 1919-74-0/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
L48 1 S 122426-01-1/RN
 SET NOTICE 1 DISPLAY

10541677

SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:00:20 ON 05 SEP 2008
L49 1 S 22012-97-1/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008
L50 1 S 114398-38-8/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008
L51 1 S 31326-81-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

FILE 'CAQD' ENTERED AT 18:03:02 ON 05 SEP 2008

```
=> s l24/uses  
QUALIFICATION NOT VALID FOR L24  
Field code qualifications can only be applied to text  
terms.
```

```

=> file reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY        SESSION
FULL ESTIMATED COST          0.46           1055.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE      TOTAL
                                                ENTRY        SESSION
CA SUBSCRIBER PRICE          0.00           -38.40

```

FILE 'REGISTRY' ENTERED AT 18:03:41 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

New CAS Information Use Policies. Enter HELP [USAGETERMS] for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

10541677

<http://www.cas.org/support/stnqen/stndoc/properties.html>

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\asdfq.str

L52 STRUCTURE UPLOADED

=> s 152
SAMPLE SEARCH INITIATED 18:06:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9911 TO ITERATE

20.2% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: 192253 TO 204187
PROJECTED ANSWERS: 0 TO 0
BATCH **COMPLETE**

L53 0 SEA SSS SAM L52

```
=> s 152 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:06:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 201321 TO ITERATE
```

100.0% PROCESSED 201321 ITERATIONS 0 ANSWERS
SEARCH TIME: 00:00:02

L54 Q SEA SSS FUL L52

=>
Uploading C:\Documents and Settings\brobinsoni\My Documents\argvh.str

L55 STRUCTURE UPLOADED

=> s 155
SAMPLE SEARCH INITIATED 18:07:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5347 TO ITERATE

37.4% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: 102555 TO 111325
PROJECTED ANSWERS: 0 TO 0

L56 Q SEA SSS SAM L55

=> s 155 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

10541677

FULL SEARCH INITIATED 18:07:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 105980 TO ITERATE

100.0% PROCESSED 105980 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L57 0 SEA SSS FUL L55

=>
Uploading C:\Documents and Settings\brobinsonl\My Documents\aragt.str

L58 STRUCTURE UPLOADED

=> s 158
SAMPLE SEARCH INITIATED 18:09:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 15021 TO ITERATE

13.3% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 293078 TO 307762
PROJECTED ANSWERS: 0 TO 0

L59 0 SEA SSS SAM L58

=> s 158 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:
FULL SEARCH INITIATED 18:09:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 301497 TO ITERATE

100.0% PROCESSED 301497 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.03

L60 0 SEA SSS FUL L58

=>
Uploading C:\Documents and Settings\brobinsonl\My Documents\sdfgsy.str

L61 STRUCTURE UPLOADED

=> s 161
SAMPLE SEARCH INITIATED 18:11:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 301372 TO ITERATE

0.7% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 5995527 TO 6059353
PROJECTED ANSWERS: 0 TO 0

Updated Search

10541677

L62 0 SEA SSS SAM L61

=>
Uploading C:\Documents and Settings\brobinsone\My Documents\arty.str

L63 STRUCTURE UPLOADED

=> s 163
SAMPLE SEARCH INITIATED 18:12:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 79510 TO ITERATE

2.5% PROCESSED 2000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 1573419 TO 1606981
PROJECTED ANSWERS: 417 TO 1173

L64 1 SEA SSS SAM L63

=>
Uploading C:\Documents and Settings\brobinsone\My Documents\artgg.str

L65 STRUCTURE UPLOADED

=> s 165
SAMPLE SEARCH INITIATED 18:14:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1257 TO ITERATE

100.0% PROCESSED 1257 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 23014 TO 27266
PROJECTED ANSWERS: 0 TO 0

L66 0 SEA SSS SAM L65

=> s 165 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:14:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 25767 TO ITERATE

100.0% PROCESSED 25767 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L67 1 SEA SSS FUL L65

=> file hcplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION

Updated Search

10541677

FULL ESTIMATED COST	719.88	1775.01
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-38.40

FILE 'HCAPLUS' ENTERED AT 18:14:44 ON 05 SEP 2008
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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

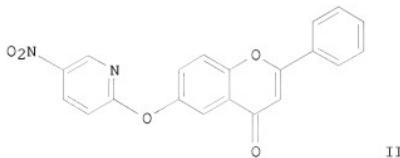
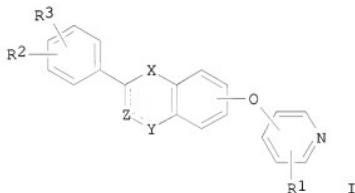
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=> s 167/uses
      1 L67
    7178398 USES/RL
L68      1 L67/USES
          (L67 (L) USES/RL)
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=> d 168, ibib abs hitstr, 1
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L68 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:606465 HCAPLUS
DOCUMENT NUMBER: 141:157037
TITLE: Preparation of pyridine derivatives useful for
       inhibiting sodium/calcium exchange system
INVENTOR(S): Otsomaa, Leena; Koskelainen, Tuula; Karjalainen, Arto;
              Rasku, Sirpa; Pollesello, Piero; Levijoki, Jouko
PATENT ASSIGNEE(S): Orion Corporation, Finland
SOURCE: PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063191	A1	20040729	WO 2004-FI11	20040109
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AU 2004203943	A1	20040729	AU 2004-203943	20040109
CA 2512184	A1	20040729	CA 2004-2512184	20040109
EP 1583759	A1	20051012	EP 2004-701023	20040109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004006669	A	20051220	BR 2004-6669	20040109
CN 1745078	A	20060308	CN 2004-80003357	20040109
JP 2006516271	T	20060629	JP 2006-500151	20040109
NZ 541087	A	20080430	NZ 2004-541087	20040109
IN 2005KN01287	A	20061027	IN 2005-KN1287	20050701
MX 2005PA07435	A	20050912	MX 2005-PA7435	20050708
NO 2005003730	A	20051007	NO 2005-3730	20050803
US 20060241147	A1	20061026	US 2005-541677	20051028
ZA 2005005461	A	20060329	ZA 2005-5461	20060124
PRIORITY APPLN. INFO.:			FI 2003-30	A 20030109
			WO 2004-FI11	W 20040109

OTHER SOURCE(S): MARPAT 141:157037
GI



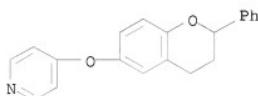
AB Title compds. I [X = O, CH₂, CO; Z = divalent alkyl, bond; Y = CH₂, CO,

divalent alkyl, etc.; R2-3 = H, alkyl, alkoxy, etc.; R1 = H, CN, halo, etc. with provisos) are prepared. For instance, II is prepared from 2-chloro-5-nitropyridine and 6-hydroxyflavone (DMF, 120°, 30 min). I are potent inhibitors of Na+/Ca2+ exchange mechanism.

IT 728937-39-1P, 4-(2-Phenylchroman-6-yloxy)pyridine
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyridine derivs. useful for inhibiting sodium/calcium exchange system)

RN 728937-39-1 HCPLUS

CN Pyridine, 4-[(3,4-dihydro-2-phenyl-2H-1-benzopyran-6-yl)oxy]- (CA INDEX NAME)



=> file caold

COST IN U.S. DOLLARS

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	8.14	1783.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.80	-39.20

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAOLD will be discontinued and removed from associated database

10541677

clusters.

- . November 22, 2008 - removed from database clusters
- . December 31, 2008 - removed from STN

Content previously available only in CAOLD is now available in CA/CAplus. To learn more about the options available for transferring saved search queries and answer sets to CA/CAplus, contact your STN Service Center.

=> d his

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(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

FILE 'REGISTRY' ENTERED AT 17:35:00 ON 05 SEP 2008
L1      STRUCTURE uploaded
L2      0 S L1
L3      STRUCTURE uploaded
L4      1 S L3
L5      STRUCTURE uploaded
L6      0 S L5
L7      1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
L8      1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
L9      0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10     STRUCTURE uploaded
L11     0 S L10
L12     1 S L10 FULL
L13     1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008
L14     1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008
L15     0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
L16     STRUCTURE uploaded
L17     14 S L16
L18     232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008
L19     2 S L18
L20     2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008
L21     0 S L18

FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008
L22     STRUCTURE uploaded
L23     0 S L22
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Updated Search

10541677

L24 178 S L22 FULL

FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008
L25 0 S L24 AND OTSOMAA, L?/AU
L26 1 S L24 AND KOSKELAINEN, T?/AU
L27 232 S L24
L28 1 S L27 AND OTSOMAA, L?/AU
L29 43 S L24/USES
L30 1 S L29 AND OTSOMAA, L?/AU
L31 42 S L29 NOT L30
L32 0 S L31 AND KOSKELAINEN, T?/AU
L33 0 S L31 AND KARJALAINEN, A?/AU
L34 0 S L31 AND RASKU, S?/AU
L35 0 S L31 AND POLLESELLO, P?/AU
L36 0 S L31 AND LEVIJOKI, J?/AU

FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008
L37 14 S L24

FILE 'REGISTRY' ENTERED AT 17:56:36 ON 05 SEP 2008
L38 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:56:56 ON 05 SEP 2008
L39 1 S 1919-74-0/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008
L40 1 S 3044-59-5/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008
L41 1 S 31326-82-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008
L42 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008
L43 1 S 122426-01-1/RN
 SET NOTICE 1 DISPLAY
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FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008
L44 1 S 122725-13-7/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008
L45 1 S 112742-08-2/RN

10541677

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FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
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FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
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FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
L48      1 S 122426-01-1/RN
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        SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:00:20 ON 05 SEP 2008
L49      1 S 22012-97-1/RN
        SET NOTICE 1 DISPLAY
        SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008
L50      1 S 114398-38-8/RN
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        SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008
L51      1 S 31326-81-5/RN
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        SET NOTICE LOGIN DISPLAY

FILE 'CAOLD' ENTERED AT 18:03:02 ON 05 SEP 2008

FILE 'REGISTRY' ENTERED AT 18:03:41 ON 05 SEP 2008
L52      STRUCTURE uploaded
L53      0 S L52
L54      0 S L52 FULL
L55      STRUCTURE uploaded
L56      0 S L55
L57      0 S L55 FULL
L58      STRUCTURE uploaded
L59      0 S L58
L60      0 S L58 FULL
L61      STRUCTURE uploaded
L62      0 S L61
L63      STRUCTURE uploaded
L64      1 S L63
L65      STRUCTURE uploaded
L66      0 S L65
L67      1 S L65 FULL

FILE 'HCAPLUS' ENTERED AT 18:14:44 ON 05 SEP 2008
L68      1 S L67/USES
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10541677

FILE 'CAOLD' ENTERED AT 18:14:58 ON 05 SEP 2008

=> s 167
L69 0 L67

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.46 1783.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -39.20

FILE 'REGISTRY' ENTERED AT 18:15:06 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stndgen/stndoc/properties.html>

=>
Uploading C:\Documents and Settings\brobinsone\My Documents\artg.str

L70 STRUCTURE UPLOADED

=> s 170
SAMPLE SEARCH INITIATED 18:18:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 761 TO ITERATE

100.0% PROCESSED 761 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 13565 TO 16875
PROJECTED ANSWERS: 0 TO 0

Updated Search

10541677

L71 0 SEA SSS SAM L70

=> s 170 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
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FULL SCREEN SEARCH COMPLETED - 14329 TO ITERATE

100.0% PROCESSED 14329 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L72 1 SEA SSS FUL L70

=> d his

(FILE 'HOME' ENTERED AT 17:34:33 ON 05 SEP 2008)

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L3 STRUCTURE uploaded
L4 1 S L3
L5 STRUCTURE uploaded
L6 0 S L5
L7 1 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 17:44:04 ON 05 SEP 2008
L8 1 S L7

FILE 'CAOLD' ENTERED AT 17:44:14 ON 05 SEP 2008
L9 0 S L7

FILE 'REGISTRY' ENTERED AT 17:44:20 ON 05 SEP 2008
L10 STRUCTURE uploaded
L11 0 S L10
L12 1 S L10 FULL
L13 1 S L12 NOT L7

FILE 'HCAPLUS' ENTERED AT 17:45:55 ON 05 SEP 2008
L14 1 S L13

FILE 'CAOLD' ENTERED AT 17:46:05 ON 05 SEP 2008
L15 0 S L13

FILE 'REGISTRY' ENTERED AT 17:46:11 ON 05 SEP 2008
L16 STRUCTURE uploaded
L17 14 S L16
L18 232 S L16 FULL

FILE 'HCAPLUS' ENTERED AT 17:47:49 ON 05 SEP 2008
L19 2 S L18
L20 2 S L19 AND OTSOMAA, L?/AU

FILE 'CAOLD' ENTERED AT 17:48:39 ON 05 SEP 2008
L21 0 S L18

Updated Search

10541677

FILE 'REGISTRY' ENTERED AT 17:49:36 ON 05 SEP 2008
L22 STRUCTURE UPLOADED
L23 0 S L22
L24 178 S L22 FULL

FILE 'HCAPLUS' ENTERED AT 17:53:07 ON 05 SEP 2008
L25 0 S L24 AND OTSOMAAA, L?/AU
L26 1 S L24 AND KOSKELAINEN, T?/AU
L27 232 S L24
L28 1 S L27 AND OTSOMAA, L?/AU
L29 43 S L24/USES
L30 1 S L29 AND OTSOMAA, L?/AU
L31 42 S L29 NOT L30
L32 0 S L31 AND KOSKELAINEN, T?/AU
L33 0 S L31 AND KARJALAINEN, A?/AU
L34 0 S L31 AND RASKU, S?/AU
L35 0 S L31 AND POLLESELLO, P?/AU
L36 0 S L31 AND LEVIJOKI, J?/AU

FILE 'CAOLD' ENTERED AT 17:56:03 ON 05 SEP 2008
L37 14 S L24

FILE 'REGISTRY' ENTERED AT 17:56:36 ON 05 SEP 2008
L38 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 17:56:56 ON 05 SEP 2008
L39 1 S 1919-74-0/RN
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FILE 'REGISTRY' ENTERED AT 17:57:09 ON 05 SEP 2008
L40 1 S 3044-59-5/RN
 SET NOTICE 1 DISPLAY
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FILE 'REGISTRY' ENTERED AT 17:57:25 ON 05 SEP 2008
L41 1 S 31326-82-6/RN
 SET NOTICE 1 DISPLAY
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FILE 'REGISTRY' ENTERED AT 17:57:41 ON 05 SEP 2008
L42 1 S 521-50-6/RN
 SET NOTICE 1 DISPLAY
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FILE 'REGISTRY' ENTERED AT 17:58:01 ON 05 SEP 2008
L43 1 S 122426-01-1/RN
 SET NOTICE 1 DISPLAY
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FILE 'REGISTRY' ENTERED AT 17:58:23 ON 05 SEP 2008
L44 1 S 122725-13-7/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

10541677

FILE 'REGISTRY' ENTERED AT 17:58:40 ON 05 SEP 2008
L45 1 S 112742-08-2/RN
 SET NOTICE 1 DISPLAY
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FILE 'REGISTRY' ENTERED AT 17:58:59 ON 05 SEP 2008
L46 1 S 521-50-6/RN
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FILE 'REGISTRY' ENTERED AT 17:59:16 ON 05 SEP 2008
L47 1 S 1919-74-0/RN
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FILE 'REGISTRY' ENTERED AT 17:59:47 ON 05 SEP 2008
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L49 1 S 22012-97-1/RN
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FILE 'REGISTRY' ENTERED AT 18:00:34 ON 05 SEP 2008
L50 1 S 114398-38-8/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 18:02:24 ON 05 SEP 2008
L51 1 S 31326-81-5/RN
 SET NOTICE 1 DISPLAY
 SET NOTICE LOGIN DISPLAY

FILE 'CAOLD' ENTERED AT 18:03:02 ON 05 SEP 2008

FILE 'REGISTRY' ENTERED AT 18:03:41 ON 05 SEP 2008
L52 STRUCTURE UPLOADED
L53 0 S L52
L54 0 S L52 FULL
L55 STRUCTURE UPLOADED
L56 0 S L55
L57 0 S L55 FULL
L58 STRUCTURE UPLOADED
L59 0 S L58
L60 0 S L58 FULL
L61 STRUCTURE UPLOADED
L62 0 S L61
L63 STRUCTURE UPLOADED
L64 1 S L63
L65 STRUCTURE UPLOADED
L66 0 S L65
L67 1 S L65 FULL

10541677

FILE 'HCAPLUS' ENTERED AT 18:14:44 ON 05 SEP 2008
L68 1 S L67/USES

FILE 'CAOLD' ENTERED AT 18:14:58 ON 05 SEP 2008
L69 0 S L67

FILE 'REGISTRY' ENTERED AT 18:15:06 ON 05 SEP 2008
L70 STRUCTURE uploaded
L71 0 S L70
L72 1 S L70 FULL

=> s 151 not 172
L73 1 L51 NOT L72

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	180.66	1964.27
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-39.20

FILE 'HCAPLUS' ENTERED AT 18:18:29 ON 05 SEP 2008
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FILE COVERS 1907 - 5 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 4 Sep 2008 (20080904/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 173/uses
1 L73
7178398 USES/RL
L74 0 L73/USES
(L73 (L) USES/RL)

10541677

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.69	1966.96
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-39.20

FILE 'REGISTRY' ENTERED AT 18:18:37 ON 05 SEP 2008
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STRUCTURE FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4
DICTIONARY FILE UPDATES: 4 SEP 2008 HIGHEST RN 1046534-52-4

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>